Service
Service
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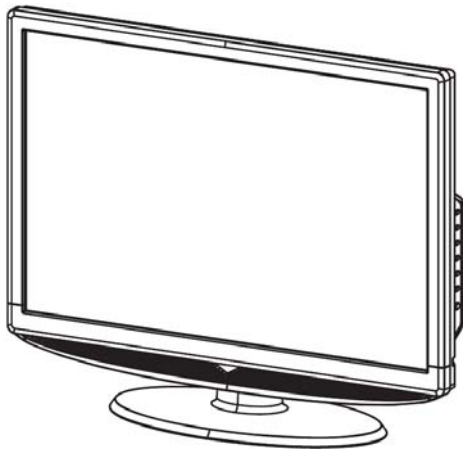


Service Manual

Horizontal Frequency
31~60 kHz

TABLE OF CONTENTS

SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.
Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING
Use of substitute replacement parts, which do not have the same, specified safety characteristics might create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiations when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

Revision List

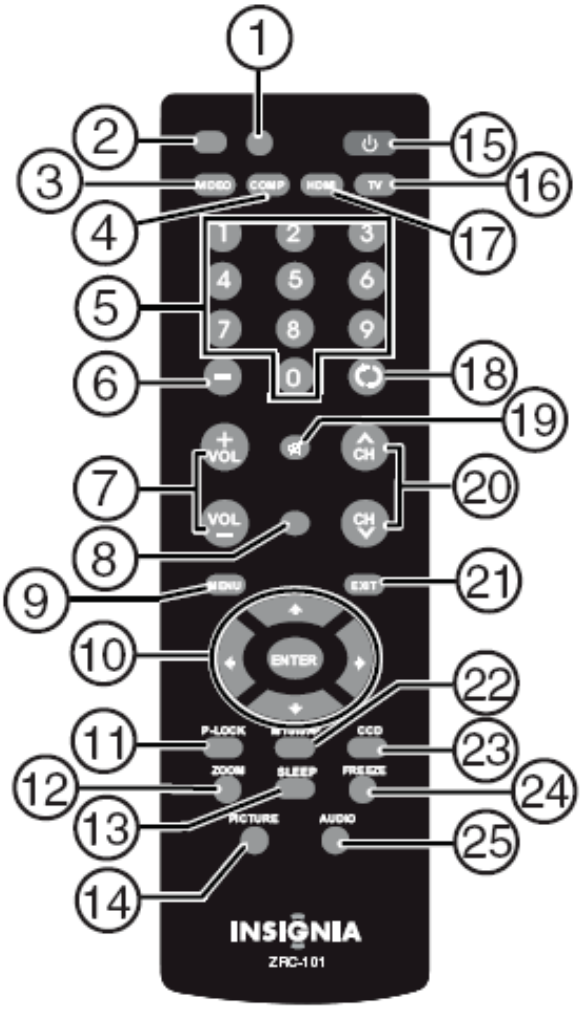
Version	Release Date	Revision Instructions	TPV Model
A00	Mar.-01-2008	Initial Release	E428MZNKW1BCNN
			E428MZNKW1BYNN

1. General Specification

Items		Specification	
LCD Panel	Panel Type	42” V420H1-L07 C2 TW panel	
	Driving system	TFT-LCD CMO Panel	
	Active Area	16:9	
	Resolutions	1920 x1080	
	Brightness	500 cd/㎡	
	Contrast	1500:1	
	Pixel Pitch	0.1615mm x0.4845mm	
	Display colors	16.7 million	
	Color Temperature	Cool / Warm/normal	
TV Function	TV Standard	ATSC, NTSC	
	Color systems	ATSC,NTSC	
	Closed Caption / V-chip For USA		
Video Inputs	AV	RCA x 1	Audio L/R x 1
	S-Video	S-Video x 1	Audio L/R x 1
	COMPONENT	Y,Cb,Cr x 1	Audio channel L / Rx 1
	HDMI	720p,1080i,480p,480i	
Audio Output	Audio Output: L / R	Speaker (built-in): Two 10W speakers	
		Headphone Mini-jack for stereo (3.5ø)	
OSD language	English, etc		
Wall Mount	VESA 200 mm x 400 mm		
Power	Power Supply	AC100V~240V, 50/60Hz	
	Power Consumption	< 250W	
Environment	Operating	5 °C ~ 40 °C	
	Storage	0 °C ~ 50 °C	
	Operating	10% ~ 85%	

2. Operating Instructions

2.1 The Use of Remote Control



#	Button	Description
1	DISPLAY	Press to display status information.
2	INPUT	Press to cycle through the available input sources.
3	VIDEO	Press to toggle between S-Video and Composite source modes.
4	COMP	Press to select Component source mode.
5	[Number buttons]	Press to enter channel numbers. In the on-screen menu, press to enter your parental control's password.
6	–	Use with the 0-9 number buttons and ENTER key to select digital channels.
7	**VOL** + or –	Press to adjust the volume up or down.
8	FAVORITE	Press to toggle the Favorite/Normal mode. See "Setting up the channel list" on page 10 for more information.
9	MENU	Press to open the on-screen menu.
10	▼ ▲ ◀ ▶ **ENTER**	Press the arrows to move down, up, left, or right in the on-screen menu. Press the **ENTER** button to confirm changes or to toggle options on and off in the on-screen menu.
11	P.LOCK	Press to activate or deactivate Parental Controls. See "Setting parental controls" on page 12 for information on setting up Parental Controls.
12	ZOOM	Press to select the display aspect ratio.

13	SLEEP	Press to set the sleep timer. For more information, see "Setting the sleep timer" on page 11.
14	PICTURE	Press to select the brightness or contrast adjustment. Lets you adjust the brightness and contrast without opening the on screen menu.
15	POWER	Press to turn on your TV or put it into Standby mode.
16	TV	Press to select ATSC (digital), or NTSC (analog) TV source.
17	HDMI	Press to select the HDMI mode.

18	RECALL	Press to watch the previous channel.
19	MUTE	Press to mute the sound. Press again to restore the sound.
20	CH ▼ or ▲	Press to change TV channels.
21	EXIT	Press to close the on-screen menu.
22	MTS/SAP	Press to select one of the preset audio modes. You can select MONO, STEREO, or SAP.
23	CCD	Press to turn closed captions on and off. For more information, see "Viewing closed captions" on page 12.
24	FREEZE	Press to freeze the video image. Press again to unfreeze the image. Do not freeze the video image for long periods of time. You may damage the TV screen.
25	AUDIO	Press to select the sound mode.

2.2 To Use the Menus

1 Press the **MENU** button.

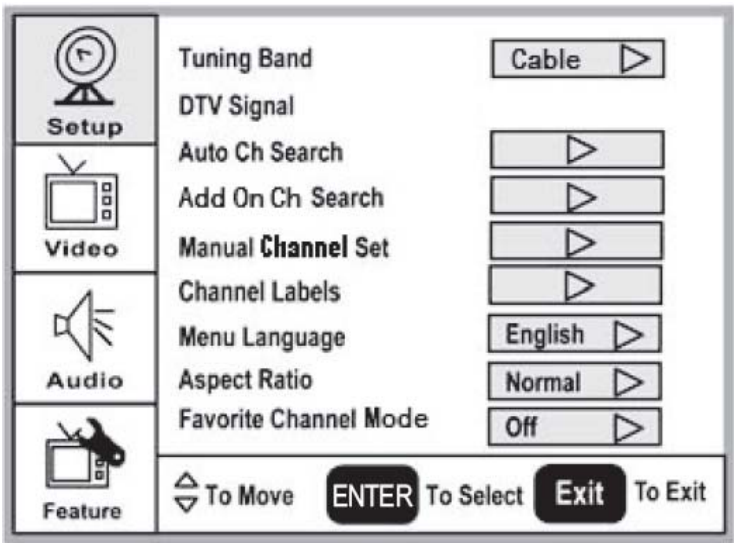
2 Press the ▽or △ button repeatedly to select a menu item.

3 Press the < or > buttons to enter a sub-menu.

4 Press the **ENTER** or > button to confirm an adjustment or toggle a setting.

5 Press **MENU** or **EXIT** to close the on-screen menu.

MAIN MENU



On-screen menus

On-screen menu	Options
Setup	**Tuning Band–**Selects the TV antenna source (Air or Cable). **DTV Signal–**Displays the digital TV signal strength. For more information. **Auto Ch Search–**Automatically sets up a list of the channels available in your area. **Add On Ch Search–**Lets you add new channels without going through the entire list of available channels. **Manual Ch Set–**Lets you add or delete channels from the channel list. **Channel Labels–**Lets you add a label to a channel. For more information. **Menu Language–**Selects the language for the on-screen menu. You can select English, French, or Spanish. **Aspect Ratio–**Selects the screen aspect ratio: Normal, Wide, Zoom, or Cinema. You can also press ZOOM to select the aspect ratio. **Favorite Channel mode–**Lets you edit your favorite channel list. Press **FAVORITE** on the remote to toggle this mode on or off.
Video (Options may vary in different modes.)	**Contrast–**Increases the picture level to adjust the white areas of the picture. Decreases the picture level to adjust the black areas of the picture. (0 ~ 100) **Brightness–**Increases the brightness to add more light to dark areas of the picture. Decreases the brightness to add more dark to light areas of the picture. (0 ~ 100) **Sharpness–**Increases the sharpness for a cleaner and clearer image. Decreases the sharpness for a smoother picture. (-50 ~ 50)

	Color–Adjusts the overall color of the picture. (0 ~ 100) **Tint–**Increases the color level to add more green to skin tones. Decreases the color level to add more purple to skin tones. (R50 ~ G50) **Backlight–**Adjusts the backlight level (0 ~ 10). **Settings–**Restores the video settings to factory default.
Audio (Options may vary in different modes.)	**Audio Language–**Selects an alternate language if the program has more than one language available. Only available in ATSC TV mode. **Bass–**Adjusts the low sounds (bass). **Treble–**Adjusts the high sounds (treble). **Balance–**Adjusts the right and left speaker volumes. **Digital Audio Output–**Selects the audio mode for the digital audio optical jack. • RAW: AC-3 in - AC-3 out/PCM in – PCM out. • PCM: AC-3 in - PCM out/PCM in – PCM out. **TV Speaker–**Turns the internal TV speaker On (default) or Off. Does not affect the digital audio output, the headphone output, and the composite audio output. **Settings–**Restores the audio settings to factory default.
Feature	**Time Set–**Sets the clock. For more information **Sleep Timer–**Sets the sleep timer. **Advanced Video Set–** • Noise Reduction–Select from Low, Mid, High, and Off. • Color Temperature–Select from Normal, Warm, and Cool (default). • 3D Y/C–Choose from On (default) or Off. • Dynamic Contrast–Choose from On or Off (default). • Setting–Restores the settings to factory default. Password Set–Lets you set the password for parental control options. The default password is 0000. **Parental Control–**Accesses V-chip controls. **Digital Caption–**Sets the digital caption type. Choose from Service 1-6, Text 1-4, and CC 1-4. **Closed Caption Options–**Customizes closed captions for digital broadcasting systems. You can adjust Size, Font, Text Color, Text Opacity, Background Color, Background Opacity, Edge Effect, and Edge Color. **Component Set–**Only available in component mode. Lets you set Horizontal Position (1 ~ 100), Vertical Position (1 ~ 100), and Phase (1 ~ 100). The Settings option restores the settings to factory default. **VGA Set–**Only available in VGA mode. Lets you set Horizontal Position (1 ~ 100), Vertical Position (1 ~ 100), Clock (1 ~ 100), and Phase (1 ~ 100). You can also select Auto Adjust to automatically adjust the settings. The Settings option restores the settings to factory default. **Input Label–**Lets you change the input label.

USING YOUR TV

To turn your TV on and off:

1 Make sure that the power cord is connected to your TV and a power outlet.

2 Press the **POWER** button to turn on your TV. The power indicator LED turns blue.

3 Press the **POWER** button again to return your TV to standby. The power indicator LED turns red.

To select the TV signal source:

• With the TV on, press the INPUT button on either the TV or the remote to choose from:

• TV

• Composite Rear

• Composite Side

• S-Video Rear

• S-Video Side

• Component1

• Component2

• VGA

• HDMI1

• HDMI2

• HDMI3

Press **VIDEO** to choose between **Composite** and **S-Video**.

Setting up the channel list:

After you select your TV source, if you selected antenna or cable you need to set up the channel list. When you set up your channel list, your TV searches for all available channels in your area and store a list of these channels. When you press the **CH ^** or **CH v** buttons, your TV skips the channels that do not have a signal.

To automatically set up the channel list:

1 Press the **MENU** button. The Main on-screen display menu opens with **Setup** highlighted.

2 Press the **>** button to enter the sub-menu, then ▽or △button to highlight **Auto Ch Search**.

3 Press **ENTER** or **>** to start the search.

Manually adding or deleting channels from the channel list

After you create a channel list using the **Auto Ch Search** option, you can manually add or delete channels from the channel list.

To add or delete channels:

1 Press the **MENU** button. The Main OSD (On-Screen Display) menu opens with **Setup** highlighted.

2 Press the > button to enter the sub-menu, then ▽or △ to highlight **Manual Channel Set**. The Channel Setup Table opens.

3 Press the ▽or △ button to select a channel, then press then press **ENTER** to toggle between viewable and not viewable.

4 Press **MENU** or **EXIT** to close the menu.

To change channels:

• Press the **CH v** or **CH ^** button on the remote control to go to the next lower or higher channel. Or Press the

number buttons to directly select a channel (for example, if you want channel 83, press **8**, then press **3**).Or Press the **RECALL** button to go to the last viewed channel.

Selecting a digital sub-channel

Most digital TV channels have more than one channel. The main channel carries the signal for the main TV program. The sub-channels carry signals for additional or alternate programming, such as a radio or news broadcast.

For example, if the main channel number is 8, the sub-channel number might be 8-1, 8-2, or 8-3.

To select a sub-channel:

1 Press the number buttons for the main channel (for example 8).

2 Press the **–** button, and then press the sub-channel button (for example 1).

To adjust the volume:

• Press the **VOL –** or **VOL +** button to decrease or increase the volume.

• Press the **MUTE** button to turn off the sound. Press the **MUTE** button again to turn the sound back on.

To display status information:

• Press the **DISPLAY** button. Your TV displays status information, such as the channel number or signal source.

To check the DTV signal strength:

1 Press the **MENU** button. The Main OSD (On-Screen Display) menu opens with **Setup** highlighted.

2 Press the > button to enter the sub-menu, then ▽or △ to highlight **DTV Signal**. The DTV Signal meter opens.

3 Press **MENU** or **EXIT** to close the menu.

To add a label to a channel:

1 Press the **MENU** button. The Main OSD (On-Screen Display) menu opens with **Setup** highlighted.

2 Press the > button to enter the sub-menu, then ▽or △ to highlight **Channel Labels**. The Channel Label menu opens.

3 Press the < or > button to move the cursor to the channel field or label field, and then press the ▽or △ button to select

4 Press < or > to move the cursor to the label field, then press ▽or △to select the character.

5 Press the **ENTER** key to return to the previous menu.

Freezing the picture

You can freeze (still) the screen image.

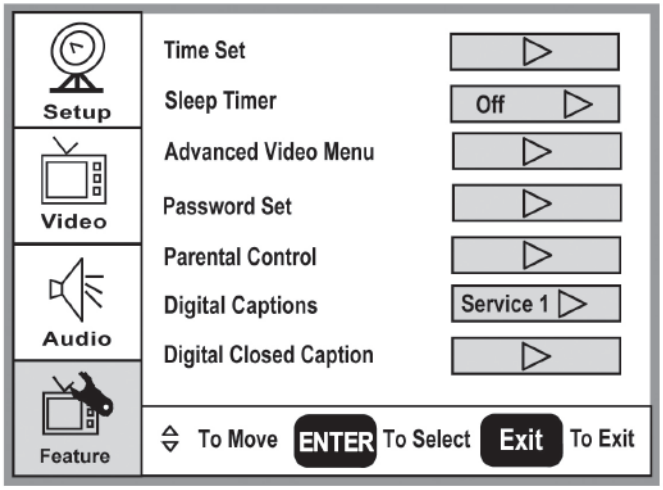
To freeze or unfreeze the picture:

• Press the **FREEZE** button.

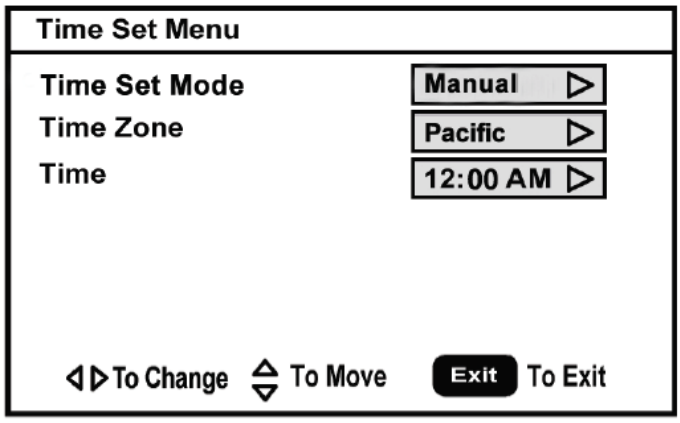
To set the clock:

1 Press the **MENU** button. The Main OSD (On-Screen Display) menu opens with **Setup** highlighted.

2 Press the ▽or △ button repeatedly to highlight **Feature**. The Feature menu opens.



3 Press the > button to enter the sub-menu, then ▽or △ to highlight **Time Set**. The Time Set menu opens.



4 Press the ▽or △ button move to the different fields, then press < or >to change the settings.

5 Press **MENU** or **EXIT** button to close the menu.

To set the sleep timer:

1 Press the **MENU** button. The Main OSD (On-Screen Display) menu opens with **Setup** highlighted.

2 Press the ▽or △ button repeatedly to highlight **Feature**. The Feature menu opens.

3 Press the > button to enter the sub-menu, then ▽or △ to highlight **Sleep Timer**.

4 Press < or > to select the amount of time (**Off, 5 min, 10 min, 15 min, 30 min, 45 min,60 min, 90 min, 120 min, 180 min, 240 min**). To turn off the timer, select **off**.

To view closed captions:

• Press the **CCD** button repeatedly to select a closed caption option. You can select:

• On

• Off

• On When Mute

Setting parental controls

Your TV has a V-chip that lets you control the type of programs your children can watch. Parental controls include two ratings: MPAA (based on age) and TV Parental Guidelines (based on content and age). A TV program may have an MPAA or TV Parental Guidelines rating, so you should set controls for both ratings. Before you can select ratings, you need to set up a parental controls password.

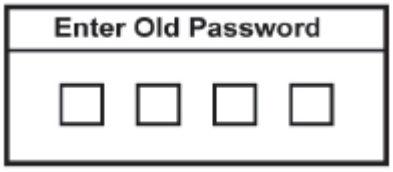
To set up a password:

1 Press the **MENU** button. The Main OSD (On-Screen Display) menu opens with **Setup** highlighted.

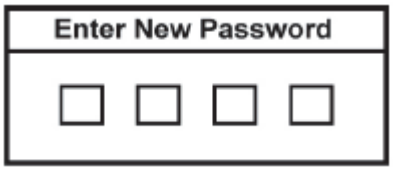
2 Press the ▽or △ button repeatedly to highlight **Feature**. The Feature menu opens.

3 Press the > button to enter the sub-menu, then ▽or △ to highlight **Password Set**.

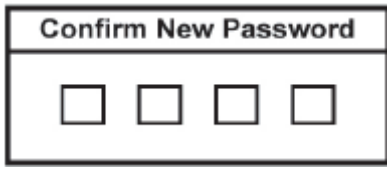
4 Press the number buttons to enter the old password. If you have not set a password, enter 0000. Press **ENTER** to continue.



5 Press the number buttons to enter a new password. Press **ENTER** to continue.



6 Press the number buttons to enter the new password again, to confirm. Press **ENTER** to continue.

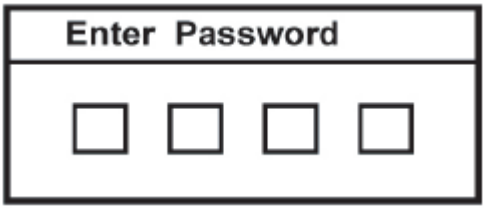


To set the Parental Control level:

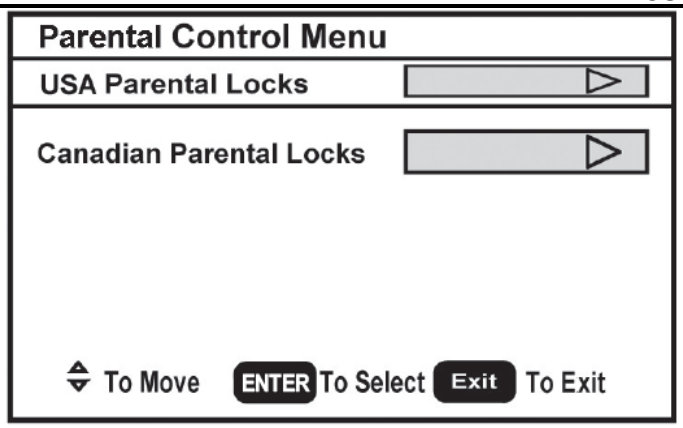
1 Press the **MENU** button. The Main OSD (On-Screen Display) menu opens with **Setup** highlighted.

2 Press the ▽or △ button repeatedly to highlight **Feature**. The Feature menu opens.

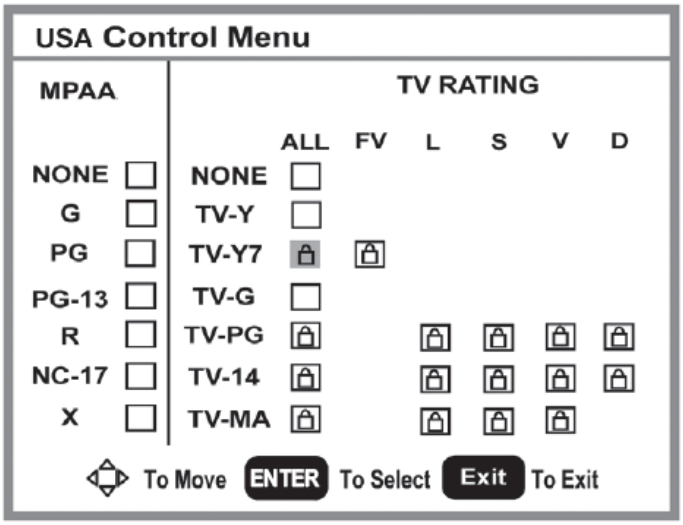
3 Press the > button to enter the sub-menu, then ▽or △ to highlight **Parental Control**. The Password screen opens.



4 Press the number buttons to enter the password. Press **ENTER** to continue. The Parental Control Menu opens.



5 Press the ▽or △ button to select **USA Parental Locks** or **Canadian Parental Locks**, the press **ENTER**. The Controls Menu that you have selected opens.



6 Press < or > , or ▽or △ to move to a rating, then press **ENTER** to select the rating. When you block a rating, that rating and all higher ratings are blocked.

7 Press **MENU** or **EXIT** button to close the menu.

American MPAA ratings

Rating	Description
NONE	Not rated.
G	General audiences.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parental guidance strongly suggested. Some material may not be suitable for children under 13 years of age.
R	Restricted. Not suitable for children under 17 years of age unless accompanied by a parent or guardian.
NC-17	Not suitable for children under 17 years of age.
X	Adults only.

Canadian MPAA Ratings

Rating	Description
C	Children.
C8+	Children 8 years and above.
G	General audience.
PG	Parental guidance suggested.
14+	14 years old and above.
18+	Adult programming.
X	Adults only.

TV Parental Guidelines ratings

Rating	Description
NONE	Not rated.
TV-Y	All children.
TV-Y7	Children over seven years of age.
TV-G	General audiences.
TV-PG	Parental guidance suggested.
TV-14	Parents strongly cautioned.
TV-MA	Mature audiences only.

Some of the age-based TV Parental Guidelines ratings also have content-based ratings.

Rating	Description
FV	Fantasy violence.
L	Adult language.
S	Sexual situations.
V	Violence.
D	Sexually suggestive dialog.

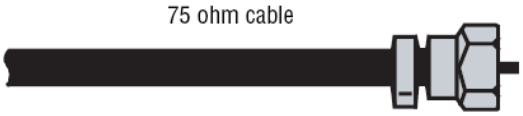
2.3 How to Connect

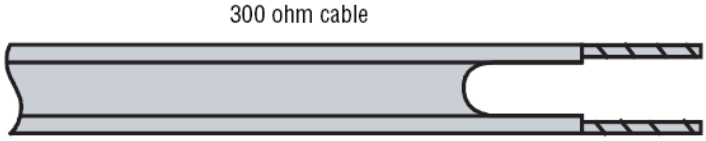
Connecting your TV to a power outlet

• Plug the power cord into a power outlet.

Connecting an outside antenna

Antenna cables come in two types: 75 ohm and 300 ohm.





• If your antenna cable has a 75 ohm connector, connect the cable to the coaxial jack on the back of your TV.

• If your antenna cable has a 300 ohm connector, connect the cable to a 300-75 ohm adapter (not included), connect the adapter to a 75 ohm cable, then connect the other end of the 75 ohm connector to the coaxial jack on the back of your TV.

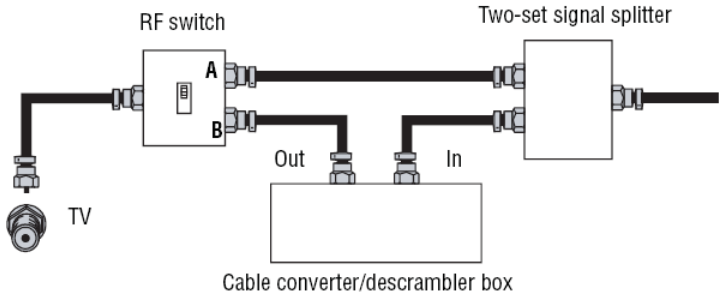
To connect cable TV without a converter/descrambler box:

1 Connect one end of a 75 ohm cable to the coaxial jack on the back of your TV.

2 Connect the other end of the cable to the cable TV wall outlet.

To connect cable TV with a converter/descrambler box:

• Use the following illustration to connect a converter/descrambler box. (The RF switch and the signal splitter are not provided.) Set the RF switch to the A position to watch unscrambled channels using your TV remote control. Set the RF switch to the B position to watch scrambled channels using the converter/descrambler controls.



To connect an external signal source:

1 For composite video—plug the audio/video cable into the AUDIO L, AUDIO R (2), and VIDEO (7) in jacks on the back of your TV. - OR –For S-Video—Plug in the audio cables as described above, then plug one end of an S-Video (3)cable into the S-Video jack on the back of your TV and the other end into the S-Video jack on external signal source.

- OR - For component video—plug the Y, Pb, and Pr video cables and the Audio L and Audio R cables into the COMPONENT VIDEO IN (6) and AUDIO L/R (5) jacks on the back of your TV, then plug the other ends of the cables into the corresponding jacks on the external signal source.

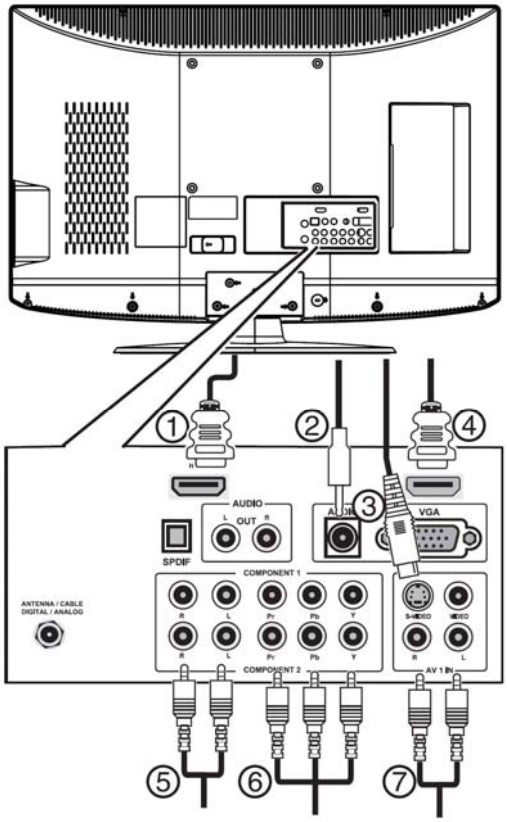
- OR - For HDMI—plug one end of an HDMI cable into the HDMI1 INPUT (1) or HDMI2 INPUT (4) jack on the back of your TV, then plug the other end into an HDMI device.

2 Turn on your TV.

3 Press the INPUT button repeatedly to select the external signal source you want to watch.

4 Turn on external signal source.

5 Insert a disc or videotape into the external signal source, then press the **PLAY** button.



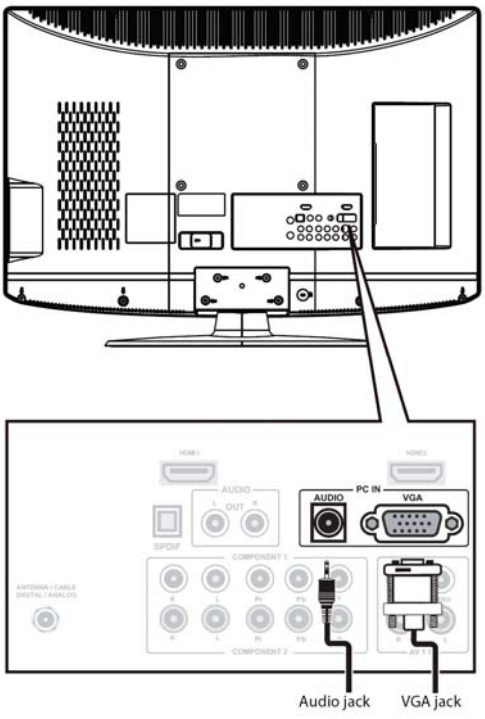
To connect a computer using VGA:

1 Plug a VGA cable from your computer into the VGA jack on the back of your TV.

2 Plug an audio cable from your computer's audio out jack into the AUDIO jack on the back of your TV.

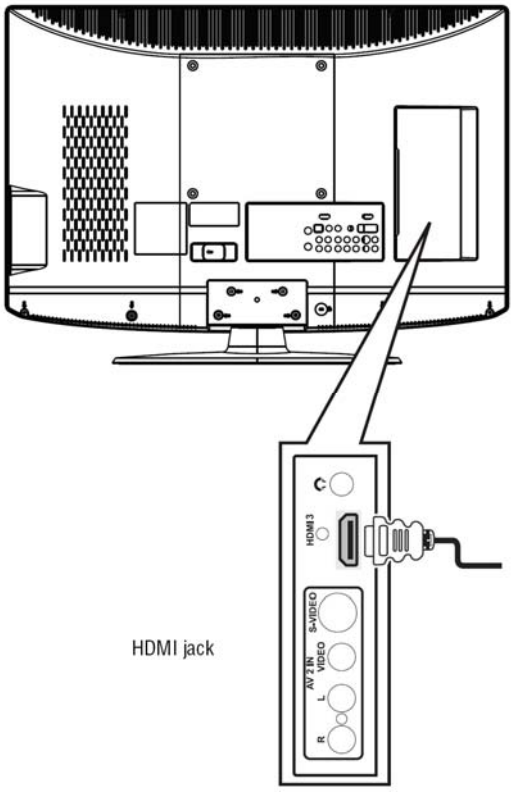
3 Plug in and turn on your TV.

4 Press the INPUT button repeatedly to select VGA input source.

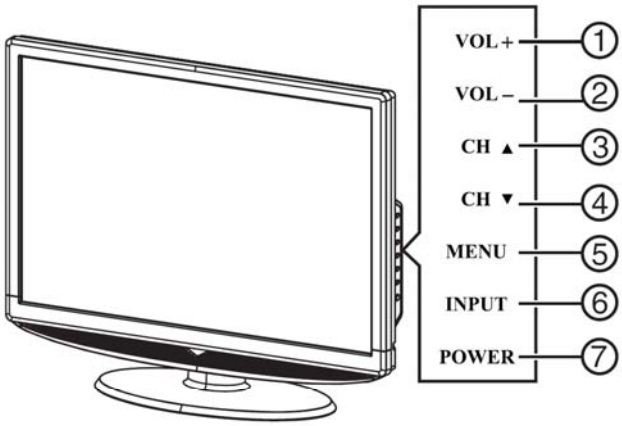


To connect a computer using HDMI:

• Plug an HDMI cable into the HDMI INPUT jack on the back of your TV and into the HDMI Out jack on the back of the computer.



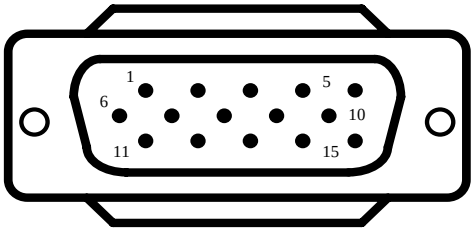
2.4 Front Panel Control Knobs



#	Button	Description
1	VOL+	Press to increase the volume. In Menu mode, functions as the right arrow to go to the next menu or increase a setting.
2	VOL–	Press to decrease the volume. In Menu mode, functions as the left arrow to go to a previous menu or decrease a setting.
3	CH ▲	Press to go to the next higher channel. In Menu mode, functions as the up arrow.
4	CH ▼	Press to go to the next lower channel. In Menu mode, functions as the down arrow.
5	MENU	Press to show the on-screen menu.
6	INPUT	Press to cycle through the available input sources. In Menu mode, functions as the **ENTER** button.
7	POWER	Press to turn on your TV or put it into Standby mode.

3. Input/Output Specification

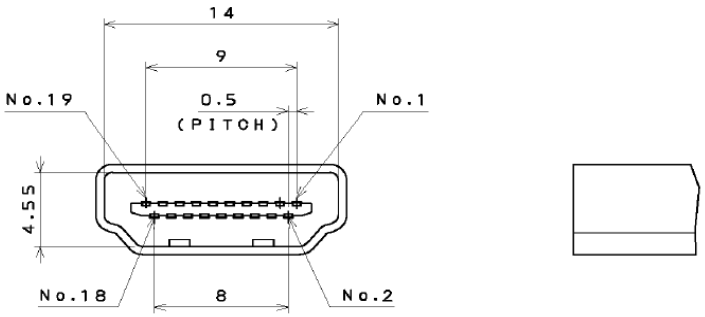
3.1 RGB Signal input



15 - Pin Color Display Signal Cable

Pin No.	Description	Pin No.	Description
1	Red Video	9	Mandatory +5V Supply for PC Bypass
2	Green Video	10	Sync Ground
3	Blue Video	11	SDA(Remote Control)
4	SCL(Remote Control)	12	Bi-directional Data (SDA) for PC Bypass
5	Ground	13	H-Sync.
6	Red Video Ground	14	V-Sync.
7	Green Video Ground	15	Data Clock (SCL) for PC Bypass
8	Blue Video Ground		

3.2 HDMI Digital connector pin assignments



Pin No.	Description	Pin No.	Description
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	NC
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

3.3 AV/S-Video/Component Video Inputs

AV (Composite Video input)		
Video1		
	System	NTSC
	Amplitude	1.0 V (p-p), negative sync.
	Impedance	75 ohm terminated
S-Video (Y / C input)		
S-Video2		
	System	NTSC
	Y signal amplitude	1.0Vpp (including sync)
	C signal amplitude	0.286Vpp
	Impedance	75 ohm terminated
Component (Y, Pb/Cb, Pr/Cr input)		
Video3		
	System	1080i, 480p, 720p, 480i
	Y signal amplitude	1.0Vpp (including sync)
	Cr, (R-Y) / Cb, (B-Y) Signal amplitude	±0.35Vpp, 75 ohm
	Impedance	75 ohm terminated

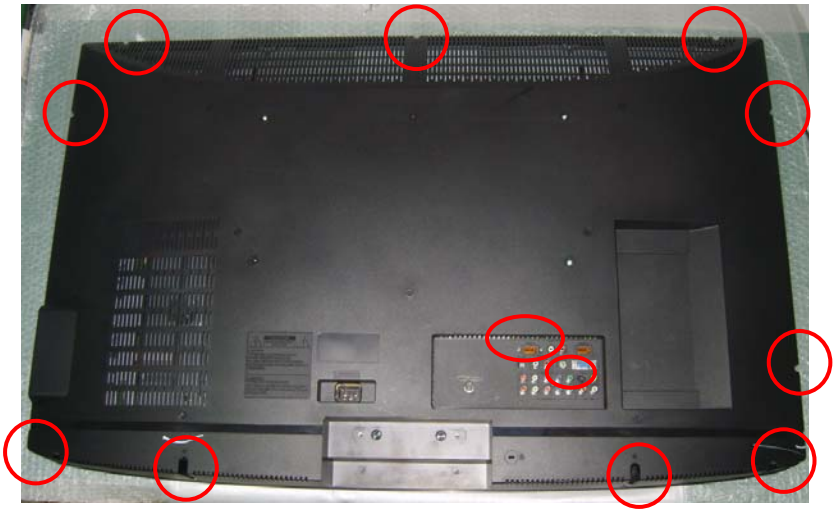
3.4 Compatible Mode Table

VESA MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency (KHz)	Sync Polarity	Nominal Freq. (Hz)	Sync Polarity	Nominal Pixel Clock (MHz)
VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@72Hz	832 x 520	37.861	N	72.809	N	31.500
	640x480@75Hz	840 x 500	37.5	N	75	N	31.500
	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
SVGA	800x600@56Hz	1024 x 625	35.156	P	56.25	P	36.000
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@72Hz	1040 x 666	48.077	P	72.188	P	50.000
	800x600@75Hz	1056 x 625	46.875	P	75	P	49.5
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@70Hz	1328x806	56.476	N	70.069	N	75.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
SXGA	1280x1024@60Hz	1688x1066	63.981	P	60.020	P	108.000
FHD	1920x1080@60Hz	2080x1111	66.587	P	59.934	N	138.500

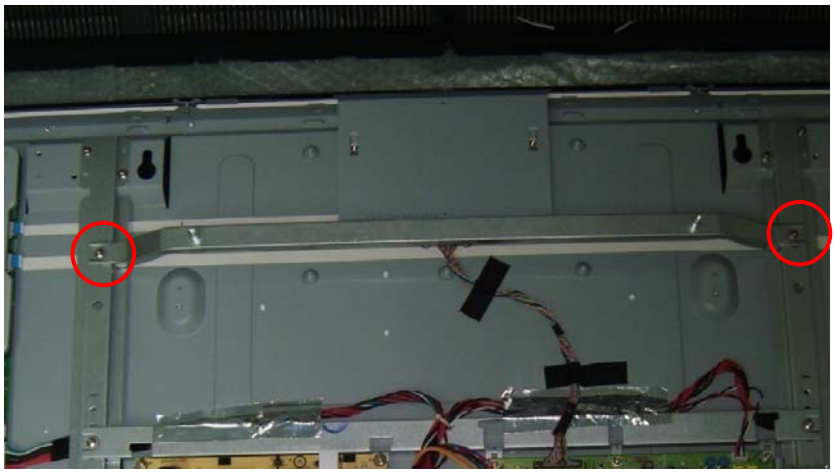
4. Mechanical Instructions

1. Remove the 4 screws to remove the stand.

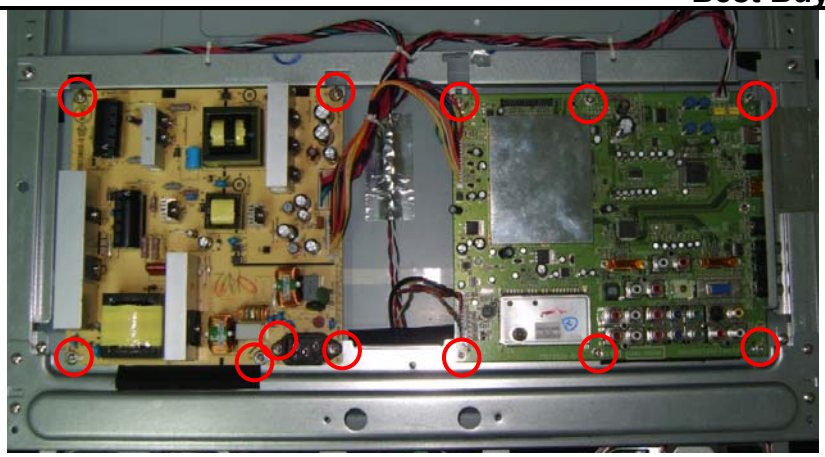
2. Remove 13 screws to remove the rear cover.



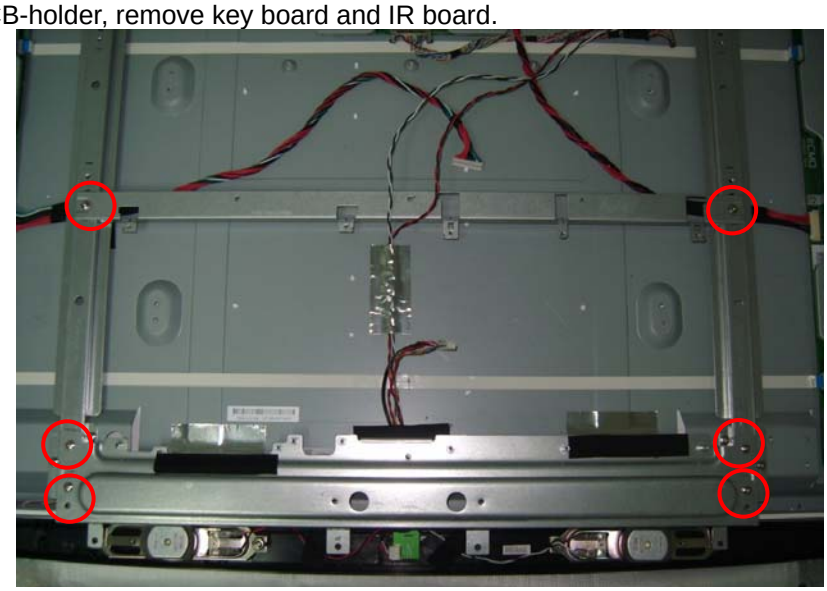
3. Remove the bkt-PCB-holder,



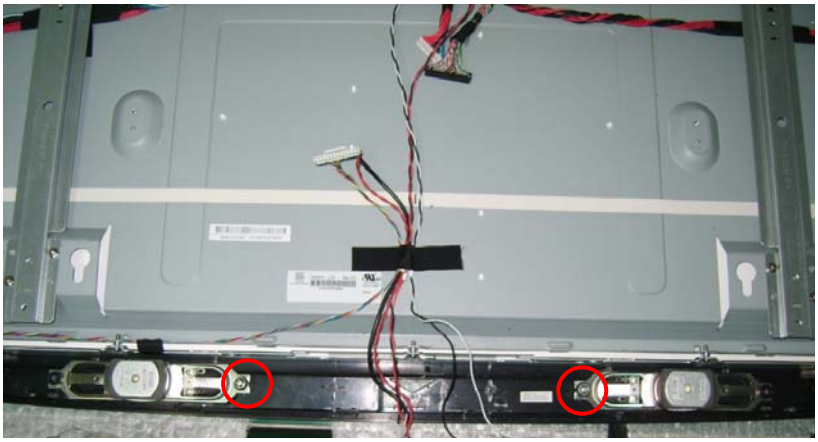
4. Remove main board, power board.



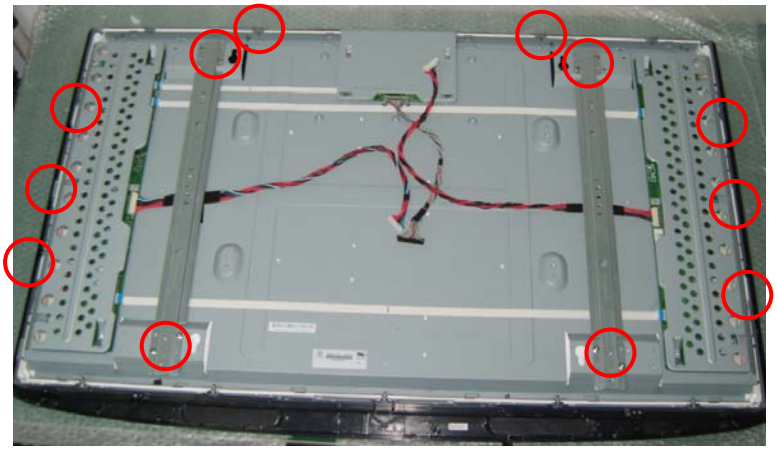
5. Remove the bkt-PCB-holder, remove key board and IR board.



6. Release the speakers.



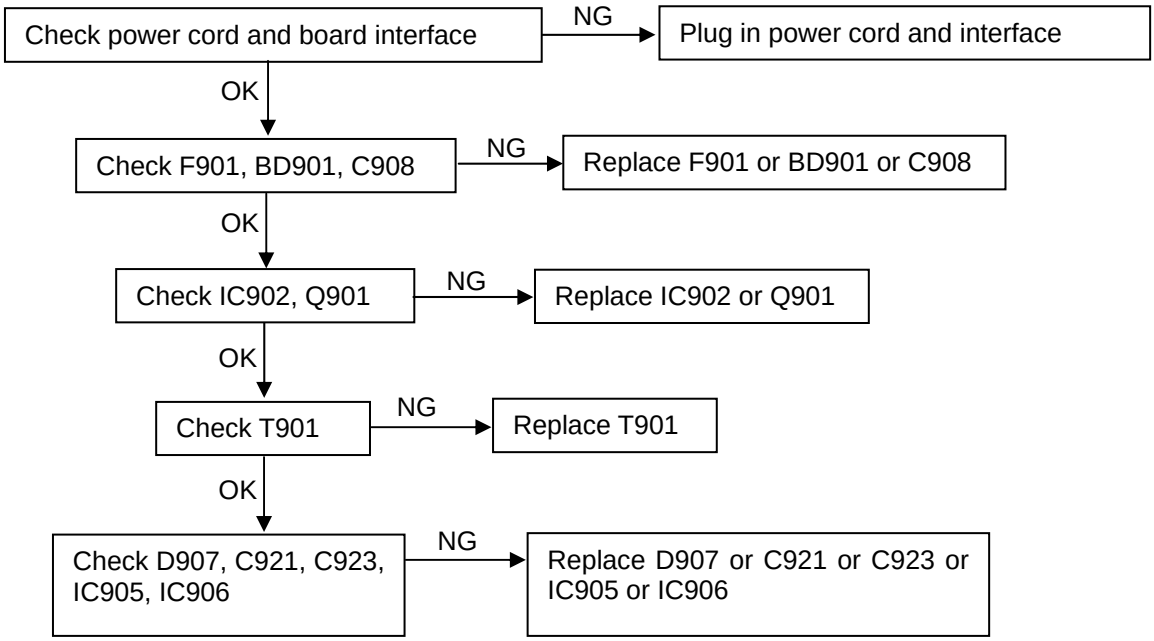
7. Remove 16 screws to remove the main frame.



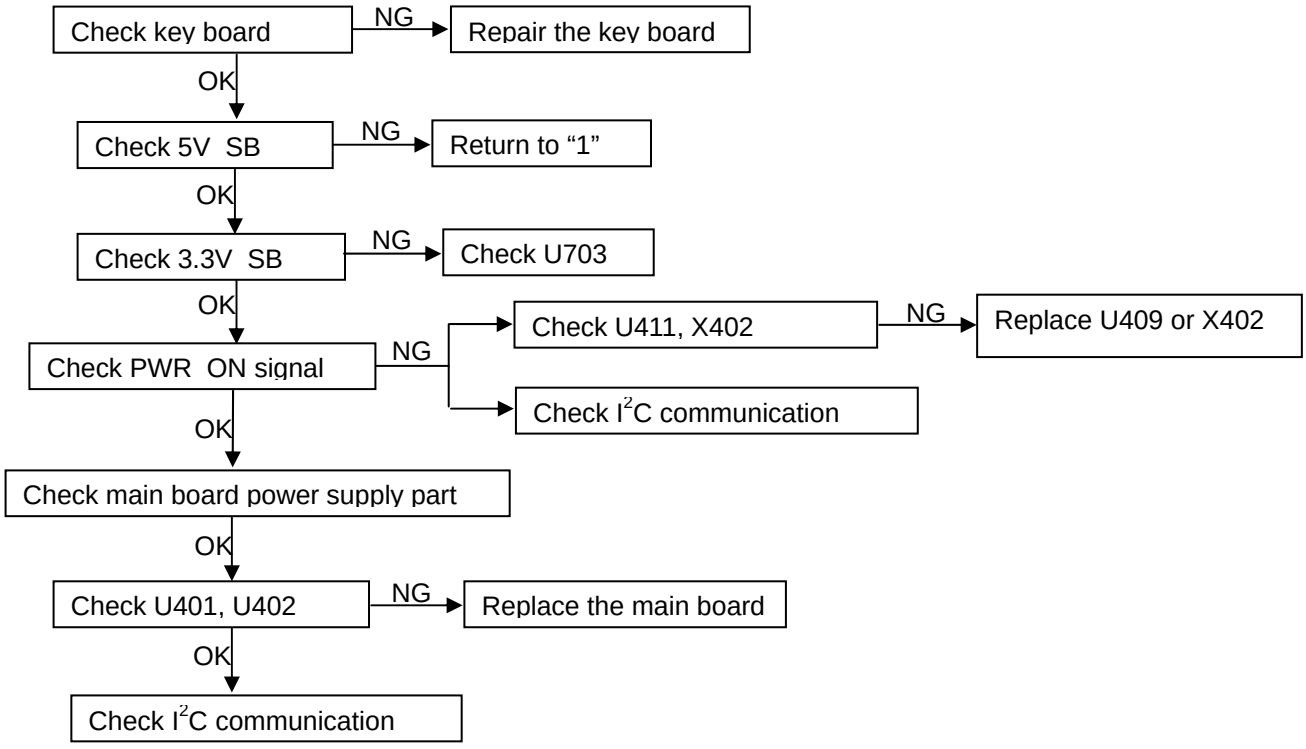
8. Disassembly bezel and panel.

5. Repair Flow Chart

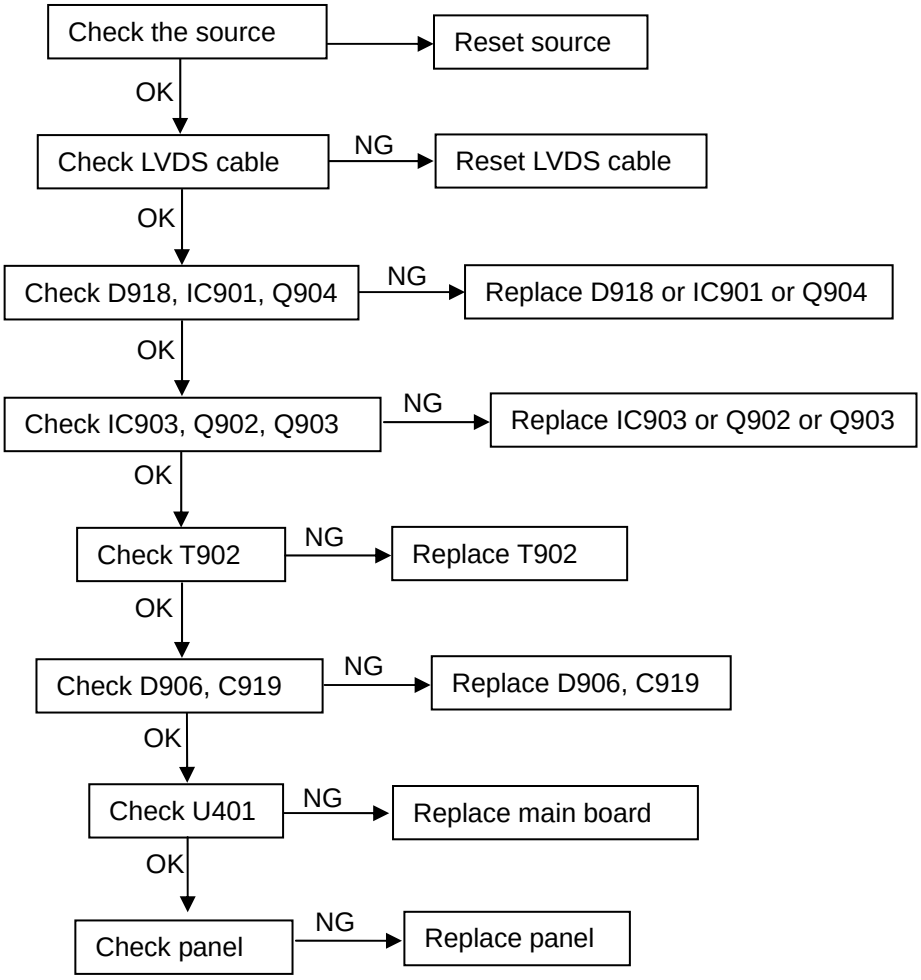
1. No Power (No LED indicator)



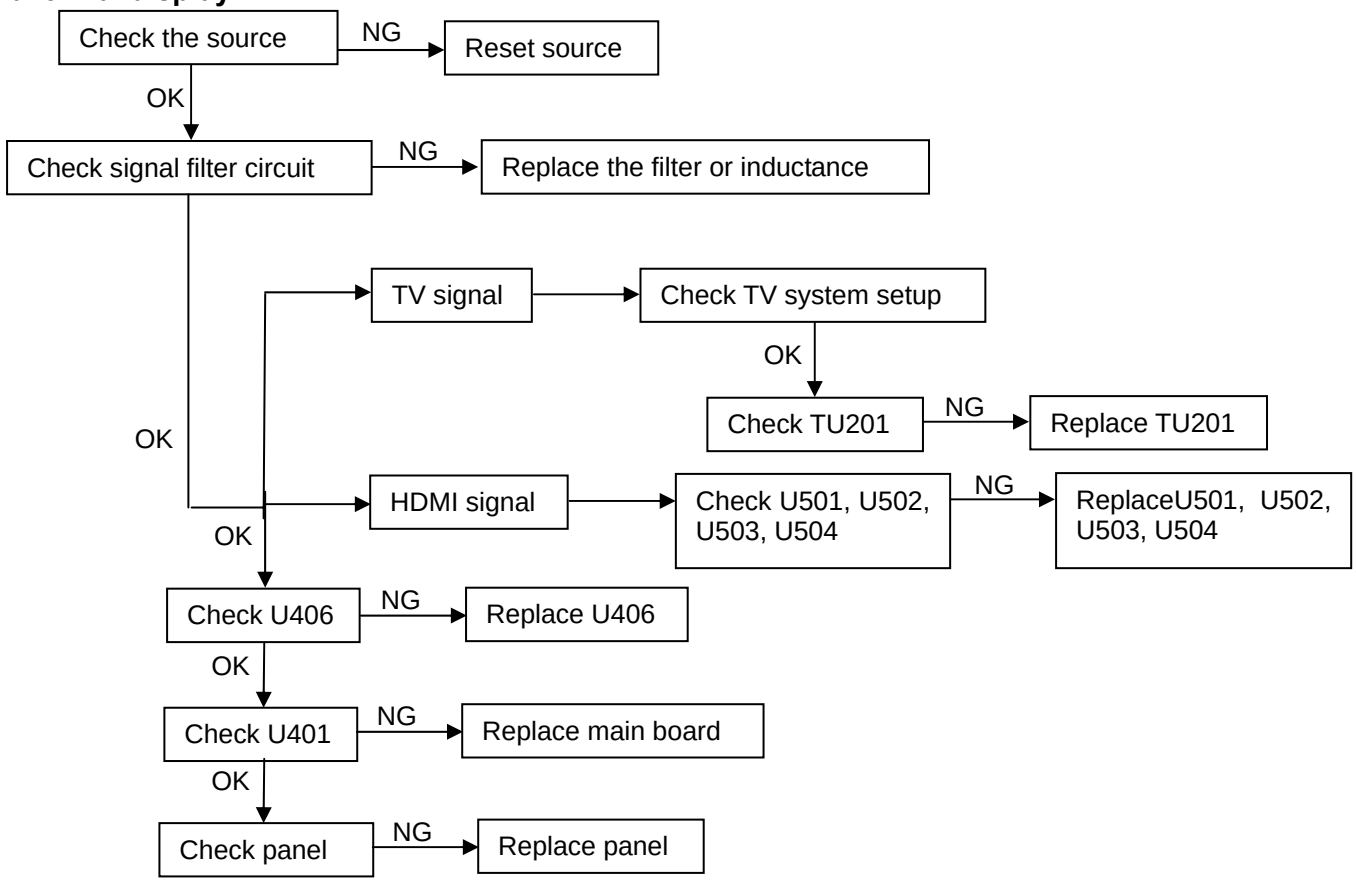
2. Can not start (LED indicator yellow)



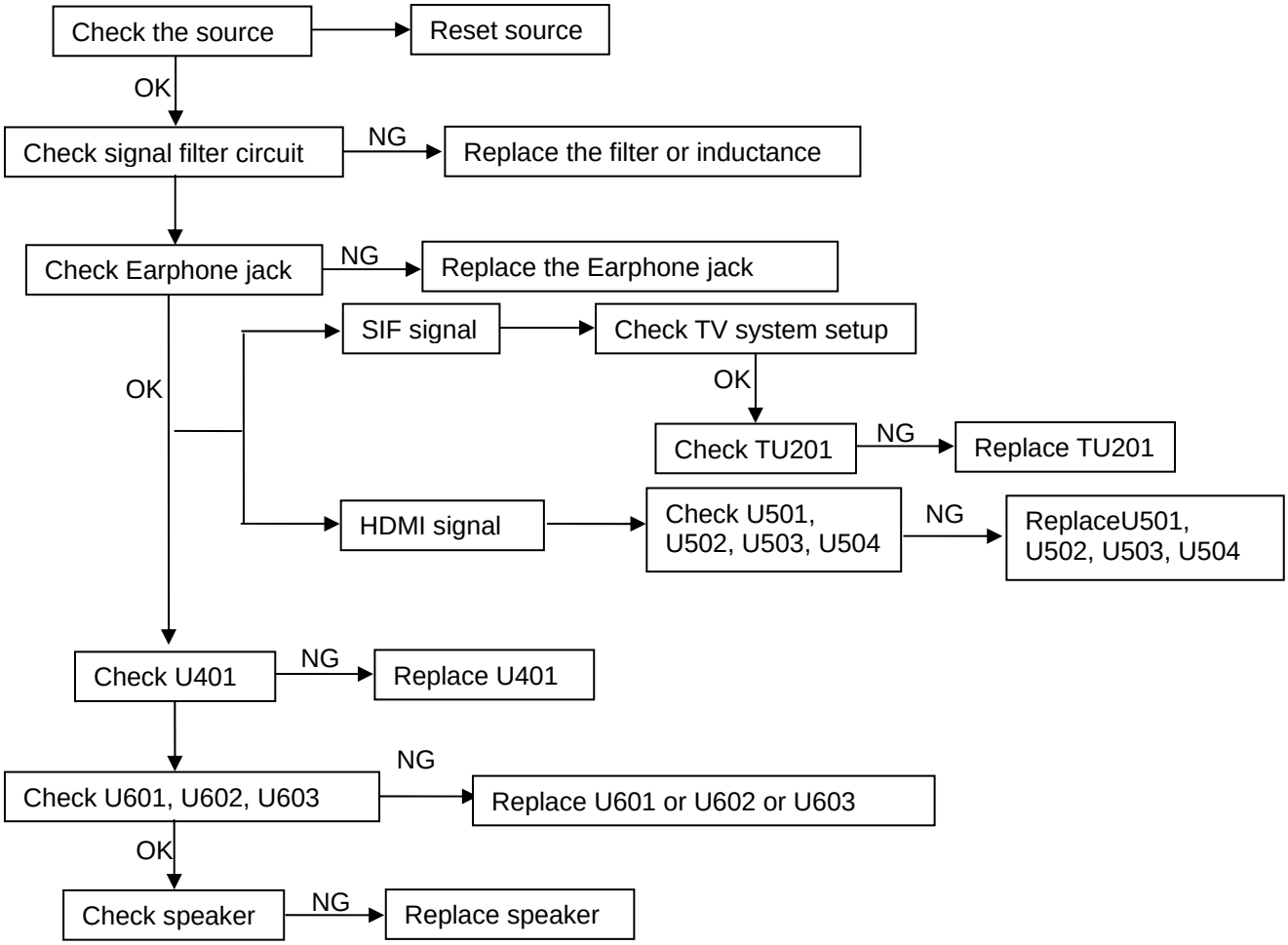
3. No display (LED indicator green)



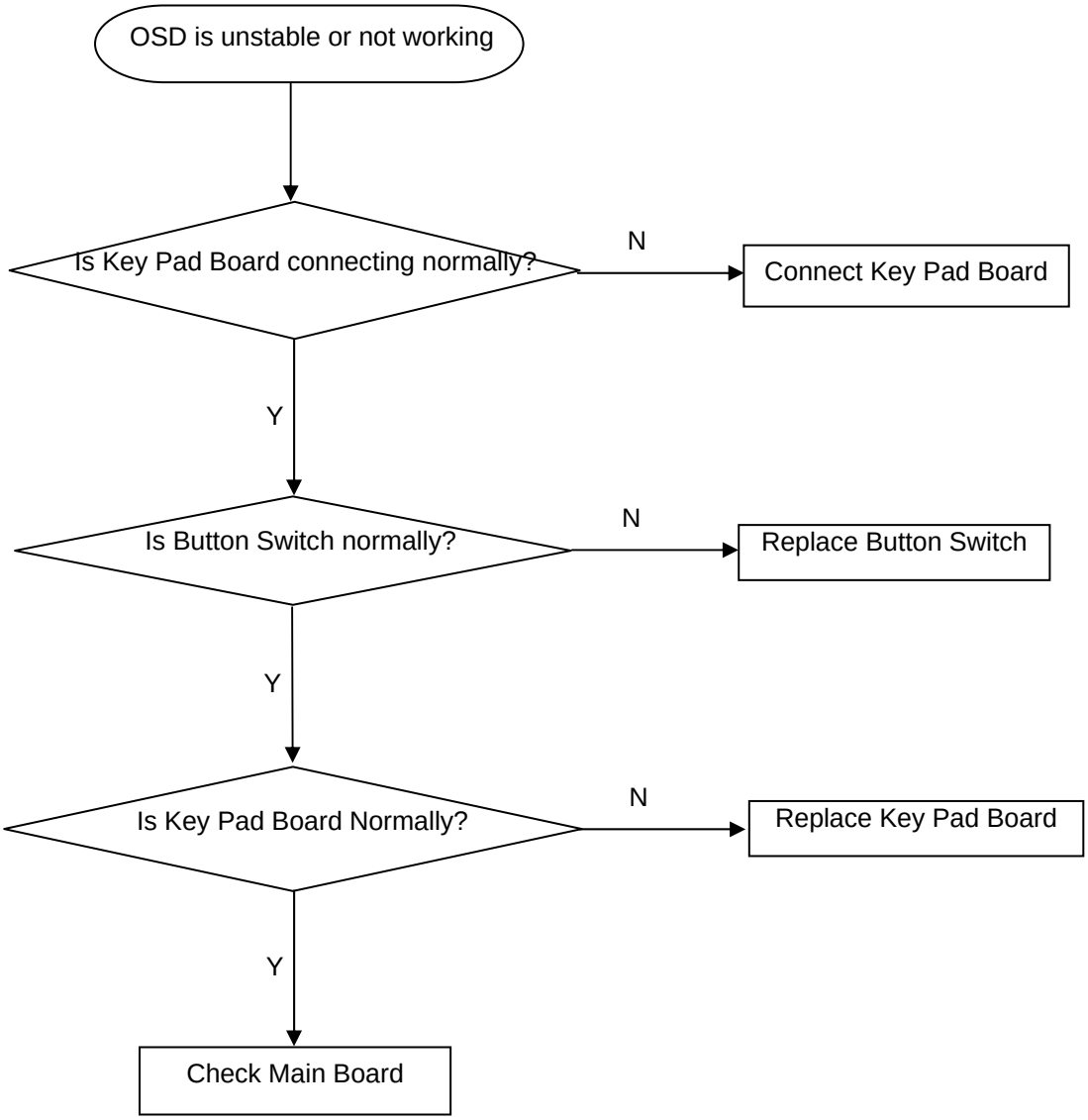
4. Abnormal display



5. No sound

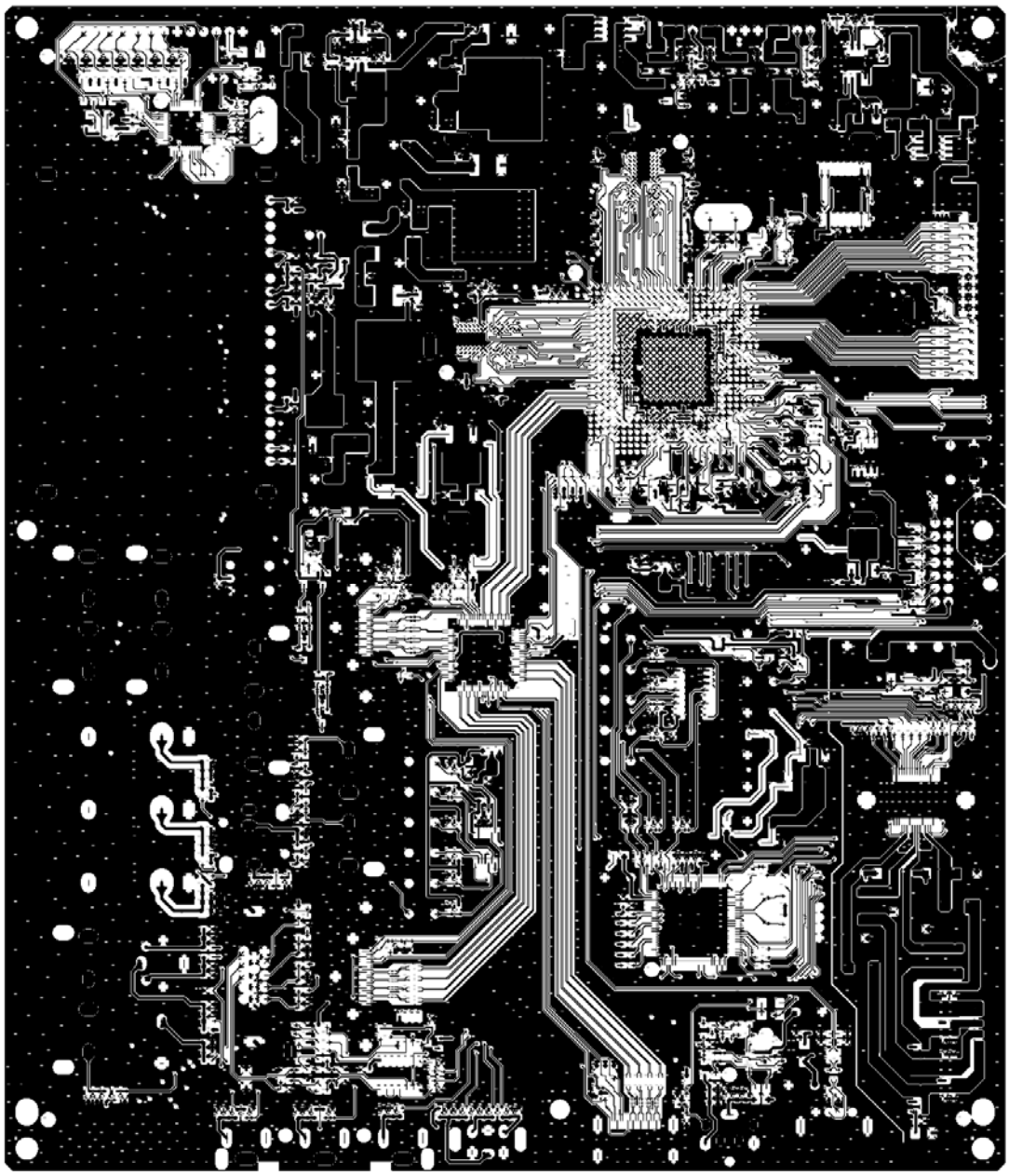

Check the source
Reset source
OK
Check signal filter circuit
NG
Replace the filter or inductance
Check Earphone jack
NG
Replace the Earphone jack
SIF signal
Check TV system setup
OK
OK
Check TU201
NG
Replace TU201
HDMI signal
Check U501,
U502, U503, U504
NG
ReplaceU501,
U502, U503, U504
Check U401
NG
Replace U401
NG
Check U601, U602, U603
Replace U601 or U602 or U603
OK
Check speaker
NG
Replace speaker

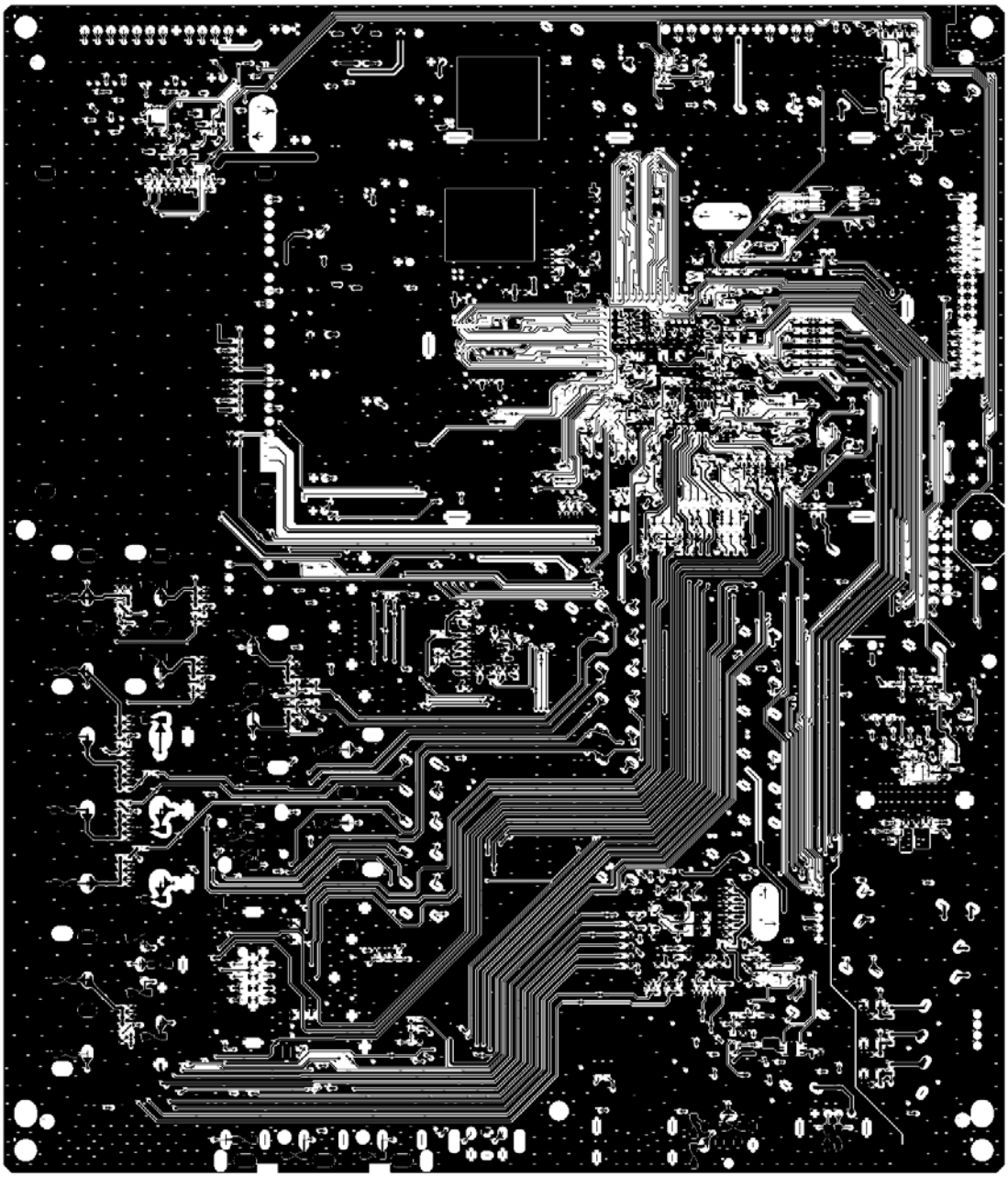
6. Key Board

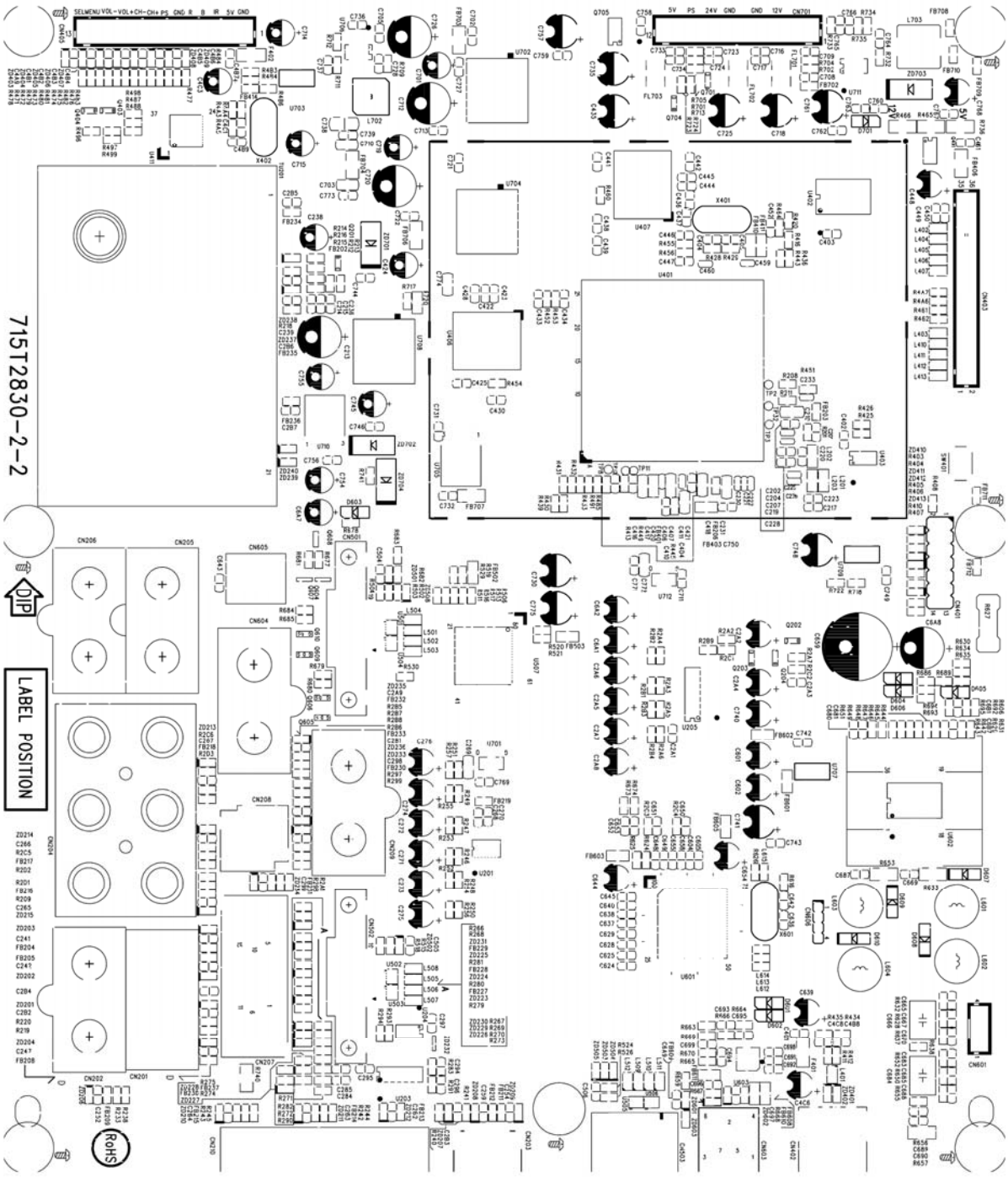

OSD is unstable or not working
Is Key Pad Board connecting normally?
N
Connect Key Pad Board
Y
Is Button Switch normally?
N
Replace Button Switch
Y
Is Key Pad Board Normally?
N
Replace Key Pad Board
Y
Check Main Board

6. PCB Layout

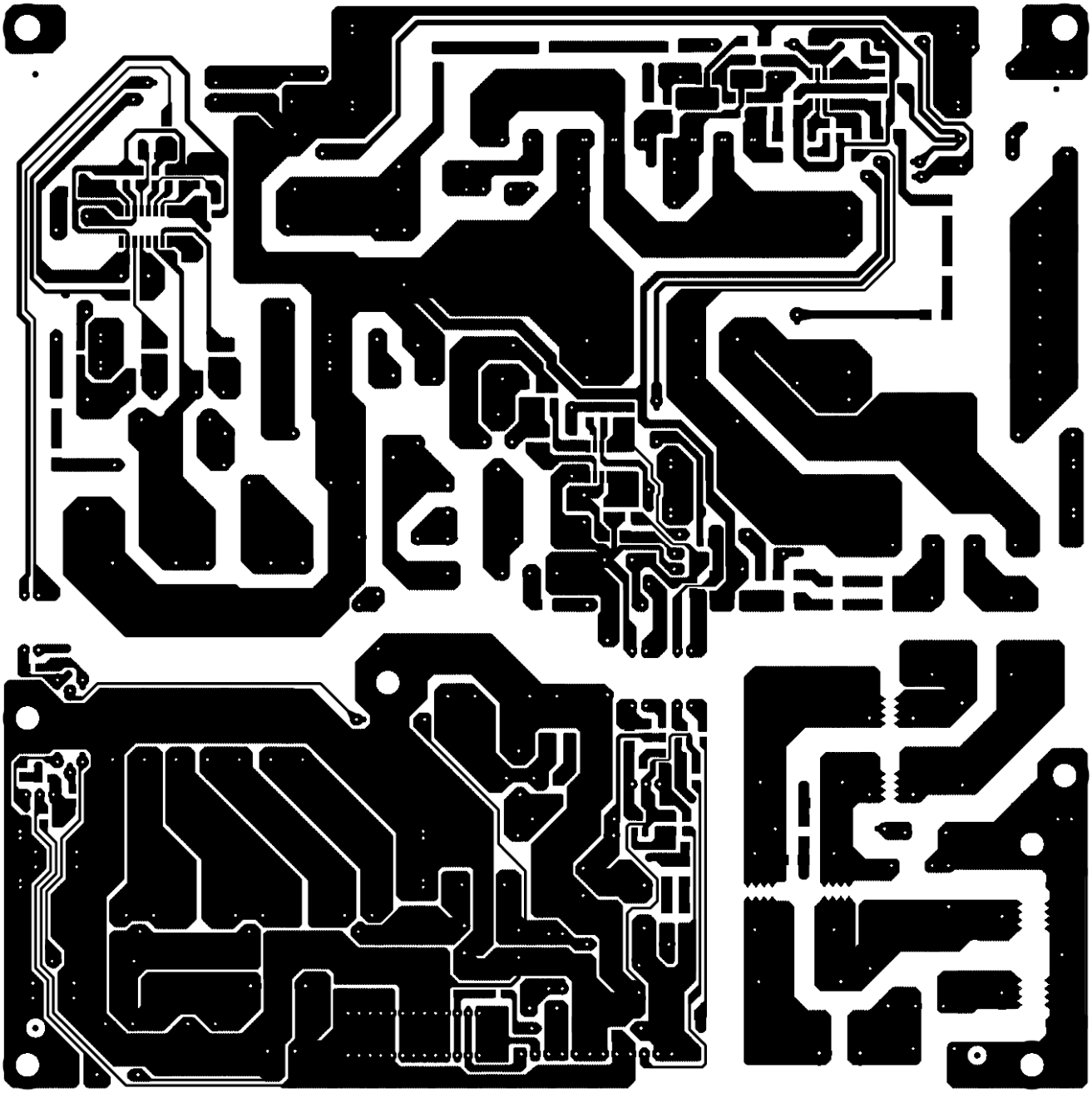
6.1 Main Board

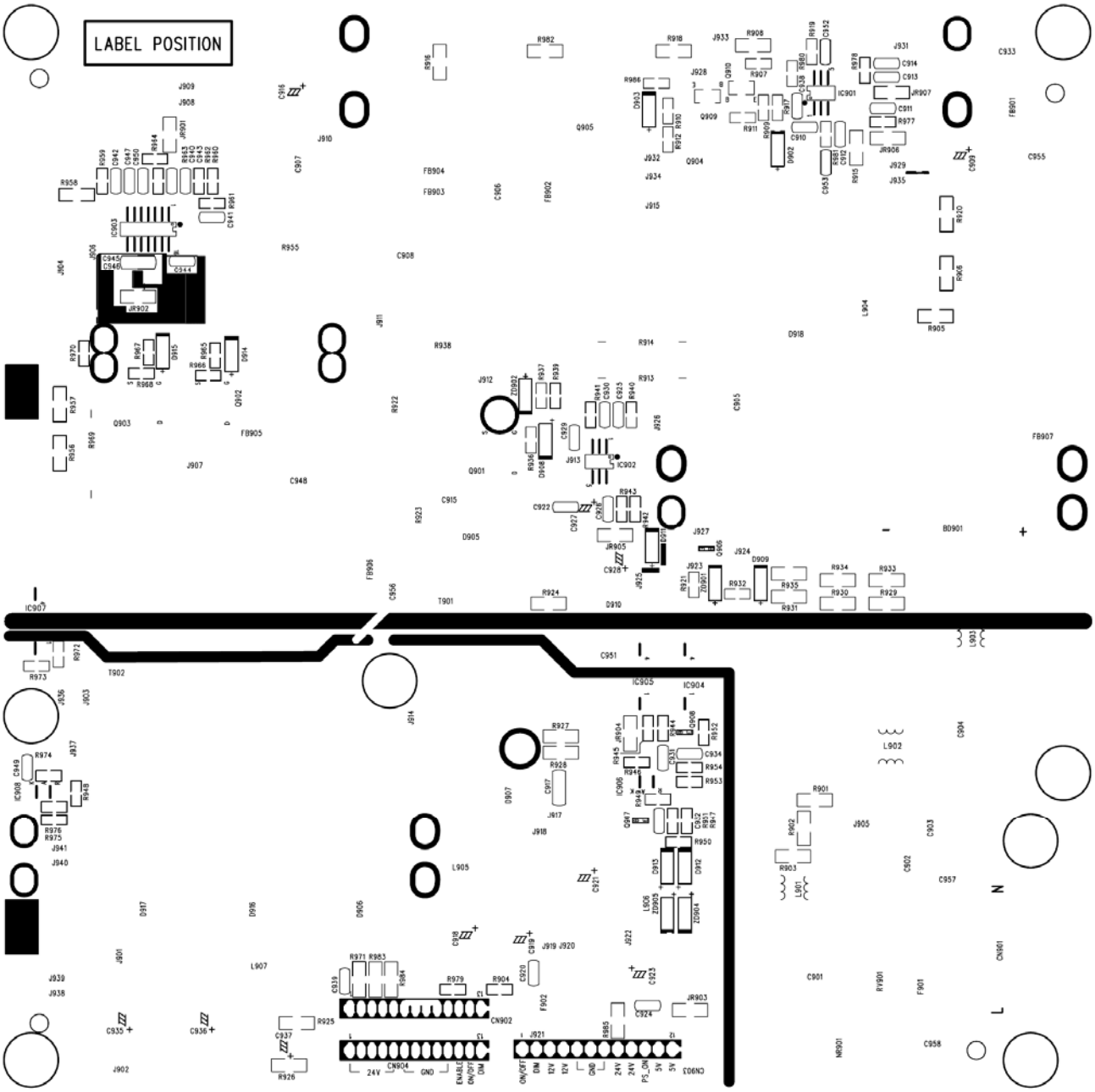


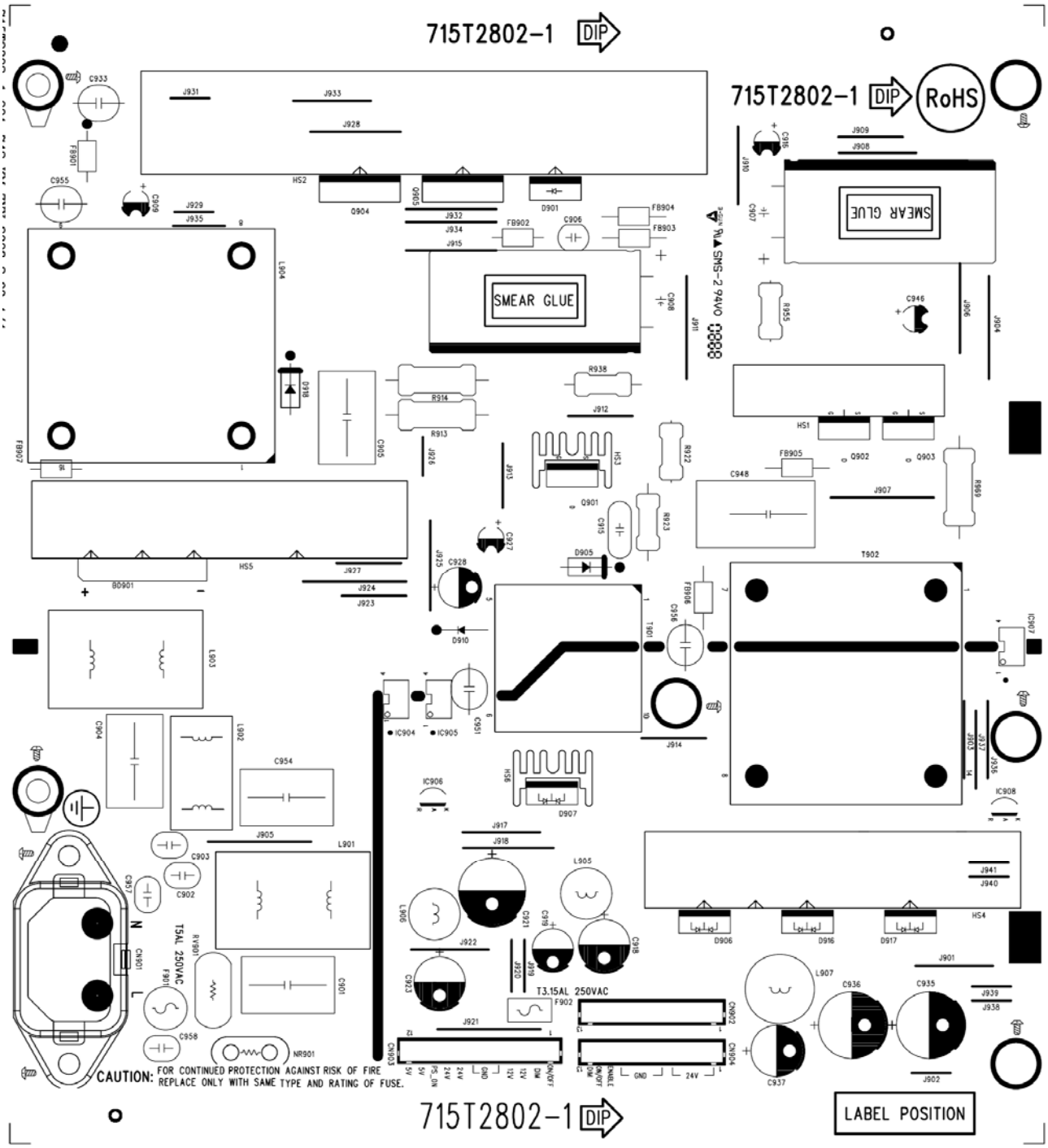



715T2830-2-2
LABEL POSITION
TOP
RoHS

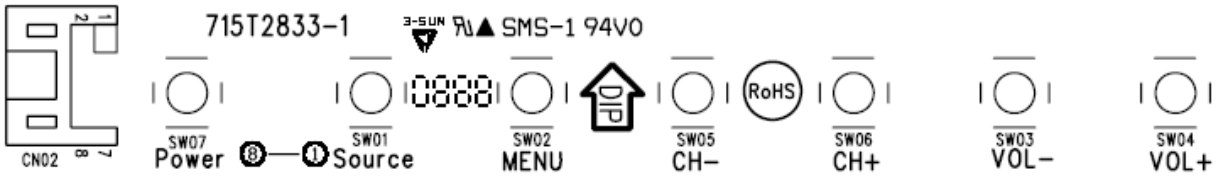
6.2 Power Board



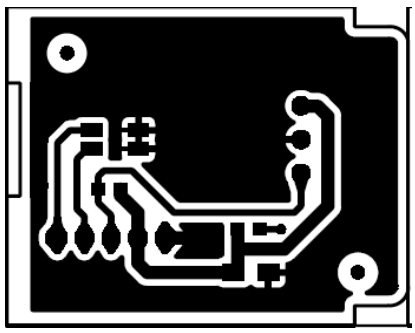

LABEL POSITION

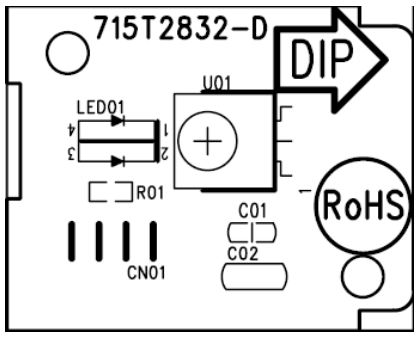

715T2802-1 DIP
715T2802-1 DIP RoHS
SMEAR GLUE
SMEAR GLUE
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
T5AL 250VAC
T3.15AL 250VAC
715T2802-1 DIP
LABEL POSITION

6.3 Key Board



6.4 IR Board





7. White Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

Before started adjust white balance, please set the Ca210 Channel to 03 Channel and set it's mode to xyLv mode.

Color Temp.		Cold	Normal	Warm
HDMI MODE	x	272	285	313
	y	278	293	329
	Y	Panel max luminance		

Note: The tolerance of the color coordinates should be less than ± 5.

How to setting the Ca210 channel, you can reference to Ca210 user guide or simple use the "Memory CH" up or down to set the channel to 03 channel, and use the "Mode" key to set the mode to xyLv.

Following is the procedure to do white-balance adjust

Note: We can only the HDMI white balance to cover the white balance of all source mode, This method is meet to the Zoran 780 software.

HDMI mode:

Ⅰ. In the TV mode adjust volume to zero, press mute key, then press number key 9 ◊8 ◊7 ◊6. It will achieve the factory mode. Select the item of White Balance and press right key to enter it.

Ⅱ.before to adjust the white balance, please press the factory mode OSD of "Reset" to reset all white balance factory setting.

In the White Balance you can adjust 8 items.

1-3 items is RO, GO, BO ◊R, G, B Bias adjust.

4-6 items is RG, GG, BG ◊R, G, B Gain adjust.

7 item is Def_contrast_all_mode adjust

8 item is Def_brightness_all_mode adjust

9 item is Colortemp_all_Mode adjust

10 item is color temperature select: Cool, Normal, and Warm.

Ⅲ. Gain adjustment:

A. Adjust Cool color-temperature:

1. Set the pattern generator to pattern 104 or 0 IRE pattern. And adjust the Item 8 to min luminance.
2. Switch the Ca210 to xyLv-mode (with press "MODE" button)
3. Switch the Ca210 channel to Channel 03 (with up or down "MEMORY CH" button)
4. The LCD-indicator on Ca210 will show x =272, y =278, Lv can adjust to max luminance.
5. Use the item 1 and item 3 to Adjust black balance :use 30 IRE(Pattern 115) signal,and adjust the black balance,until the Ca210 show x =272, y =278.
6. Use the item 4 and item 6 to adjust white balance: use 100 IRE (Pattern 105) signal, and adjust the white balance,

until the Ca210 show x =272, y =278.

7. Adjust item 7 to check color temperature is saturation or not: Add by 7 steps and then to adjust the item 4 and item 6 to check the color temperature is saturation or not, until is saturation.

8. Enter the item 10 to select another color temperature to adjust.

B. Adjust Normal color-temperature:

1. Set the pattern generator to pattern 104 or 0 IRE pattern. And adjust the Item 8 Cool color-temperature's item 8 value.

2. Switch the Ca210 to T△uvLv-mode (with press "MODE" button)

3. Switch the Ca210 channel to Channel 03 (with up or down "MEMORY CH" button)

4. The LCD-indicator on Ca210 will show T=9300.

5. Adjust the 9 item: Colortemp_All_Mode_Normal, until Ca210 indicator reached the value T=9300

6. Adjust item 7 to check color temperature is saturation or not: Add by 7 steps and then to adjust the item 4 and item 6 to check the color temperature is saturation or not, until is saturation.

7. Loop the Item 5 and Item 6, until the T=9300 and RG/BG is saturation

8. Enter the 8 item to select another color temperature to adjust.

C. Adjust Warm color-temperature:

1. Set the pattern generator to pattern 104 or 0 IRE pattern. And adjust the Item 8 Cool color-temperature's item 8 value.

2. Switch the Ca210 to T△uvLv-mode (with press "MODE" button)

3. Switch the Ca210 channel to Channel 03 (with up or down "MEMORY CH" button)

4. The LCD-indicator on Ca210 will show T=6500.

5. Adjust the 9 item: Colortemp_All_Mode_warm, until Ca210 indicator reached the value T=6500

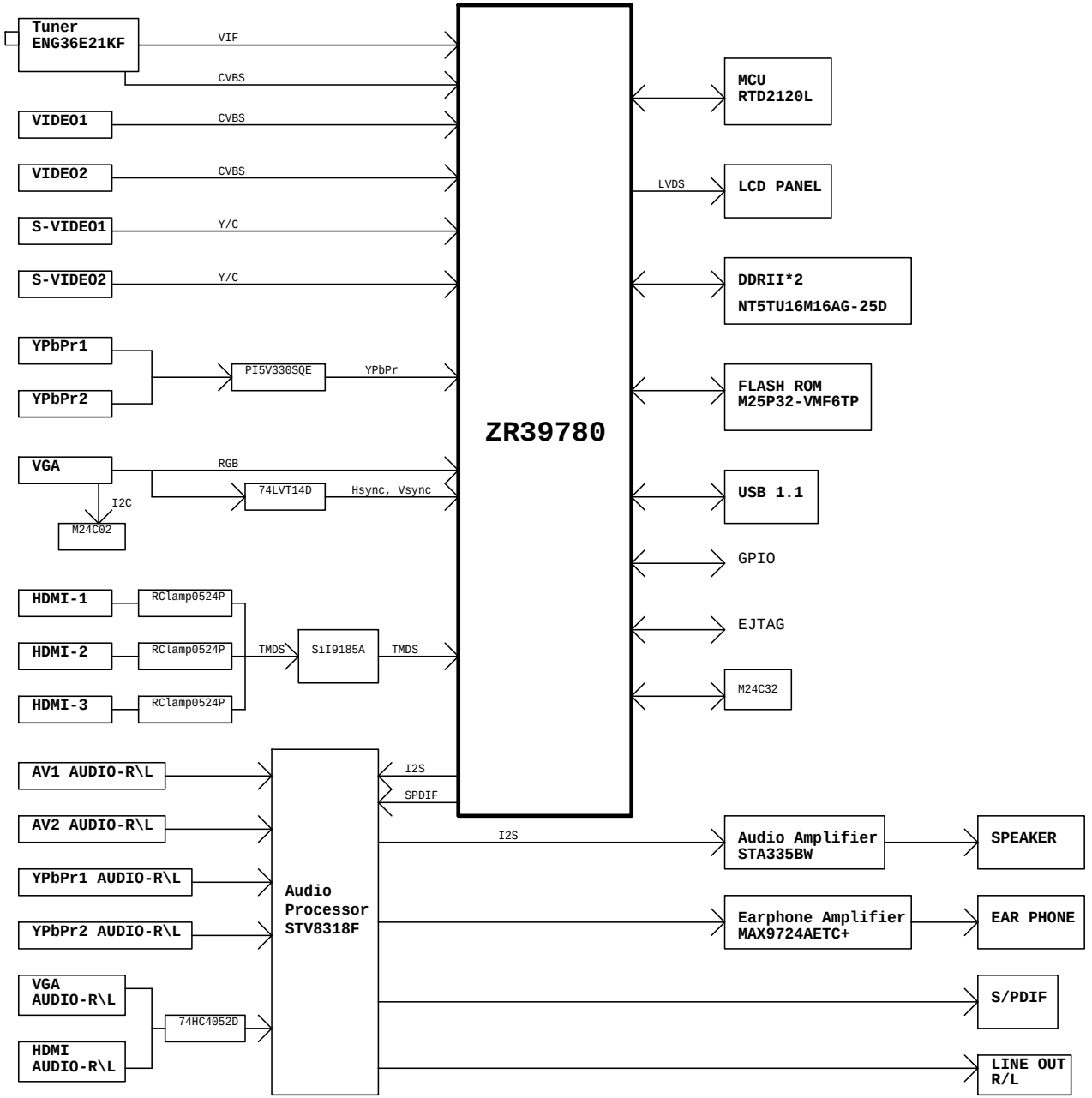
6. Adjust item 7 to check color temperature is saturation or not: Add by 7 steps and then to adjust the item 4 and item 6 to check the color temperature is saturation or not, until is saturation.

7. Loop the Item 5 and Item 6, until the T=6500 and RG/BG is saturation

8. Enter the 8 item to select another color temperature to adjust.

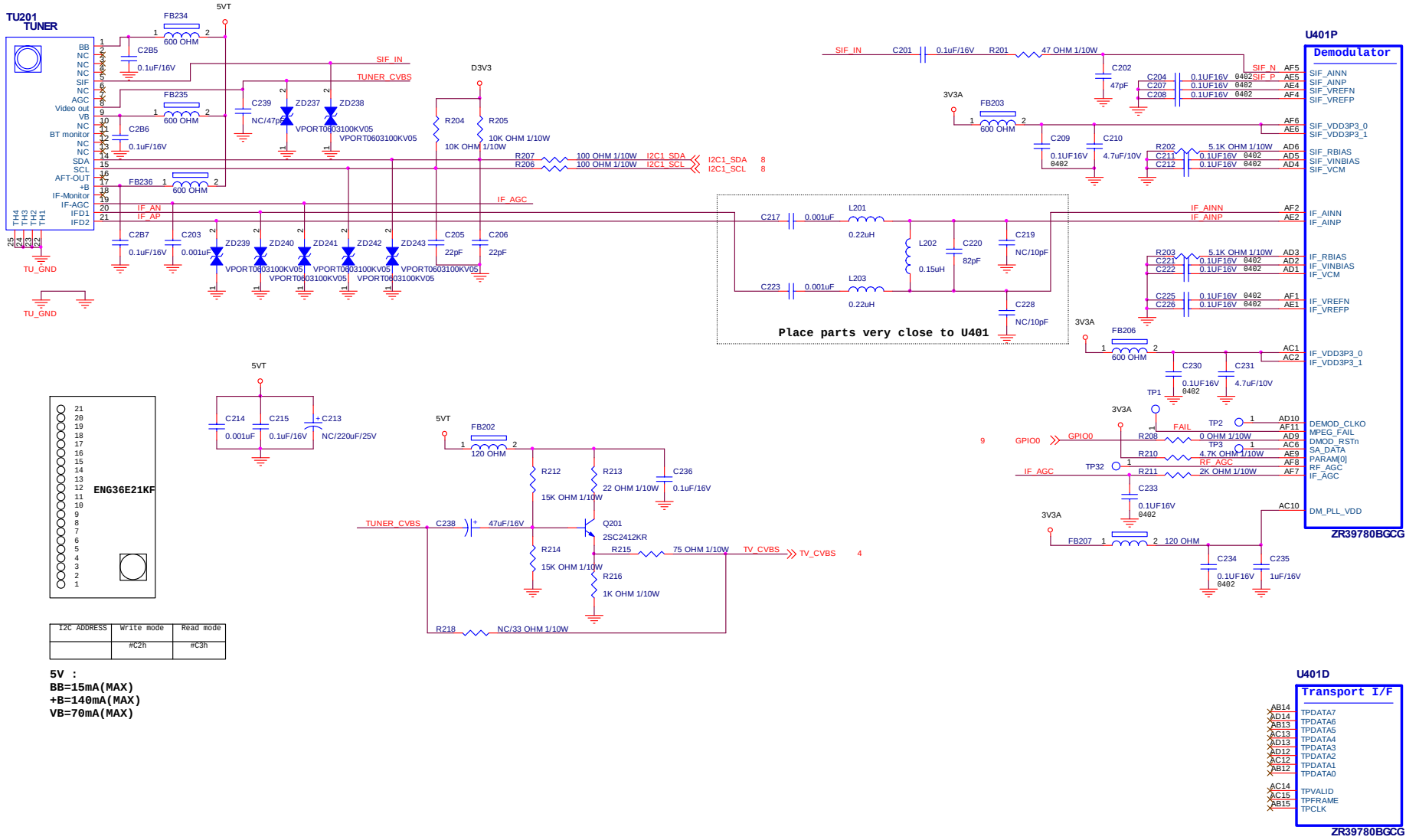
Press "Exit" button on remote control to quit from factory mode.

8. Block Diagram



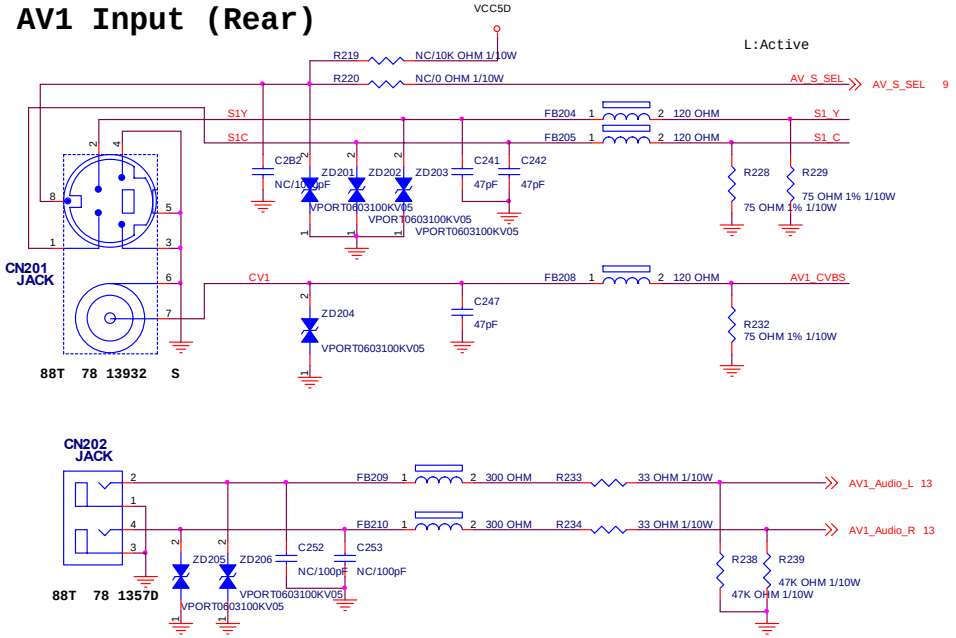
9. Schematic Diagram

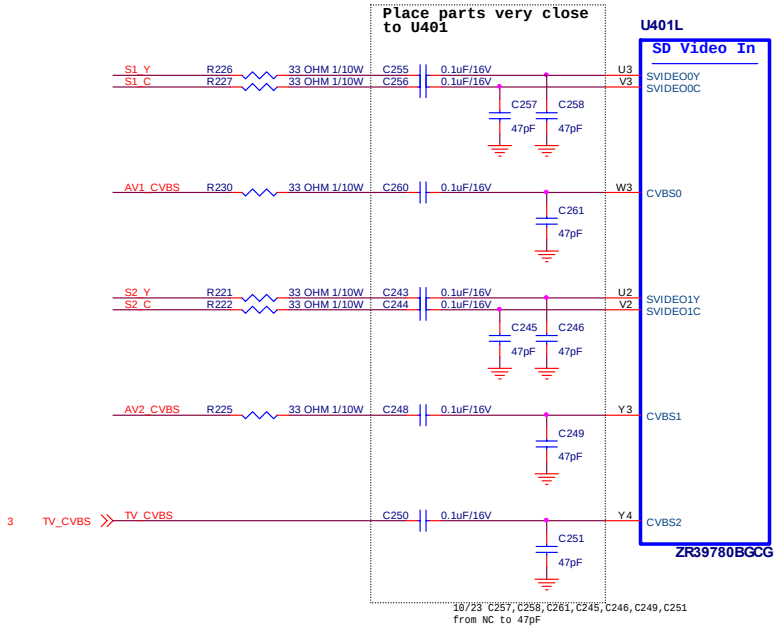
9.1 Main Board

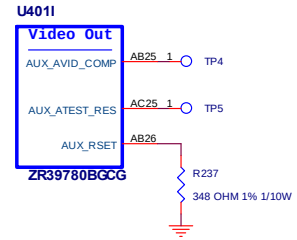


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
結 隔 瓜 蘋 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	03-Tuner	PCB NAME	715T2830	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	3 of 18		

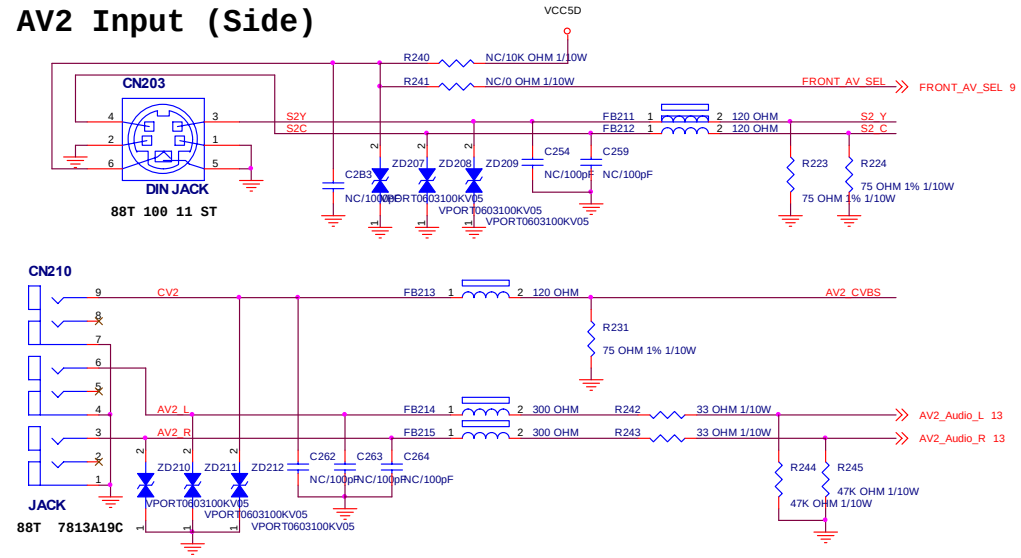
AV1 Input (Rear)



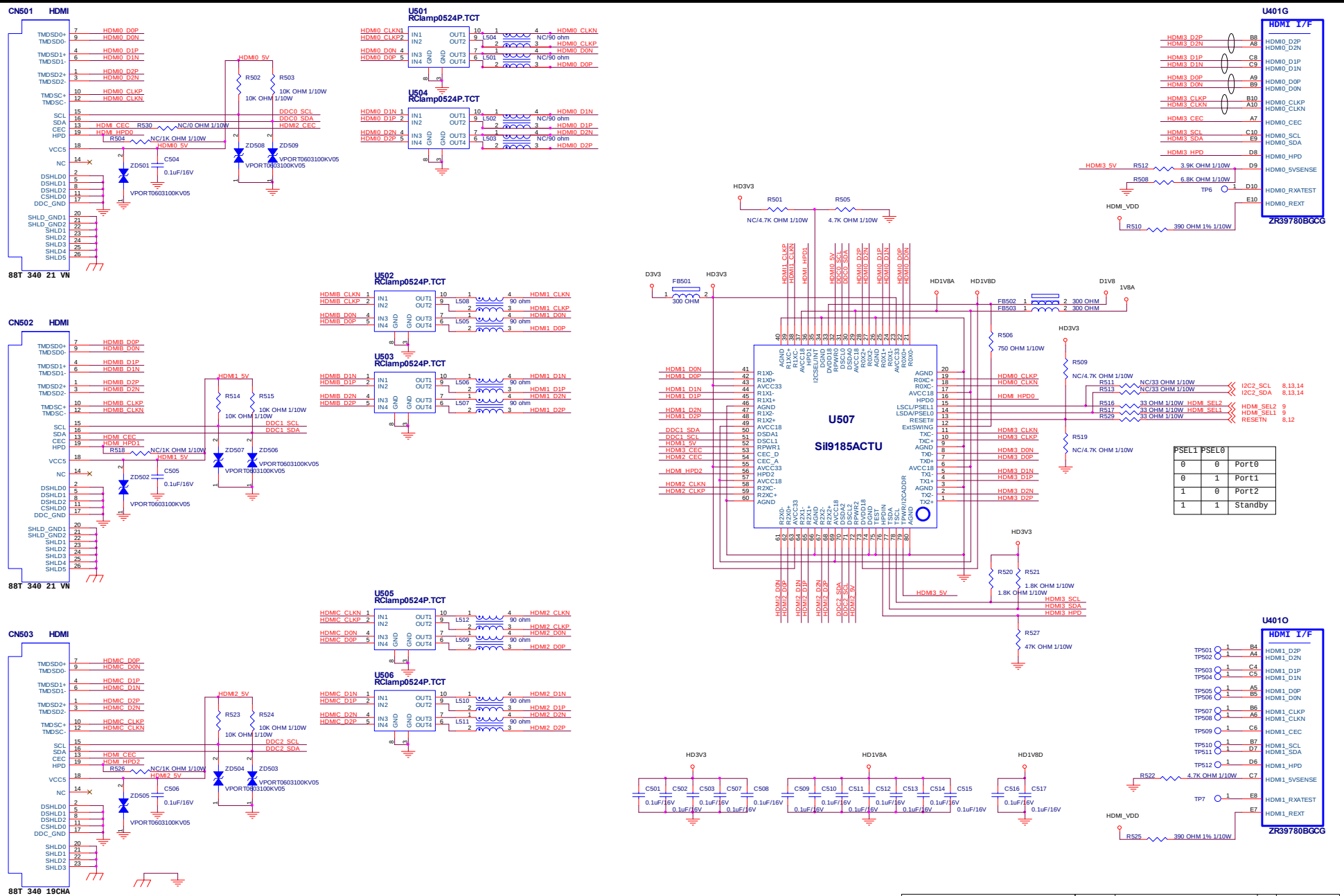




AV2 Input (Side)



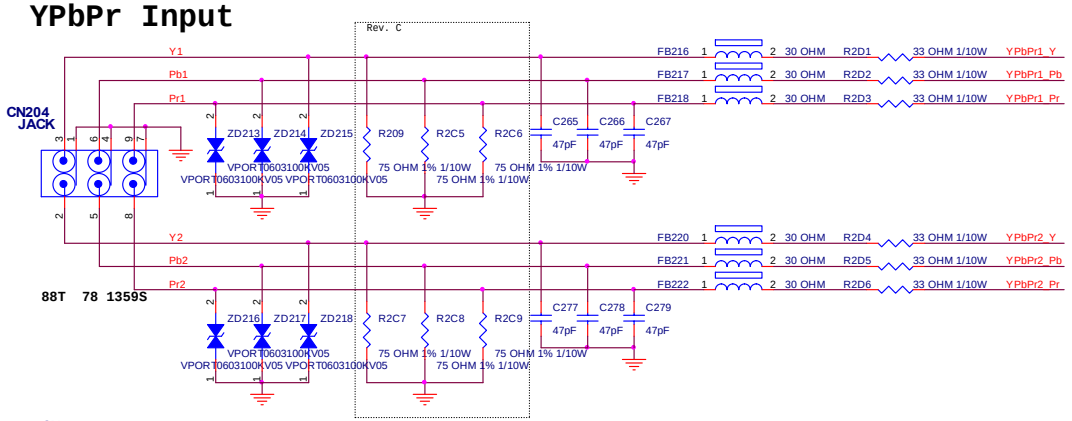
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
話 隔 瓜 銀 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	04-AV Input	PCB NAME	715T2830	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	4 of 18		

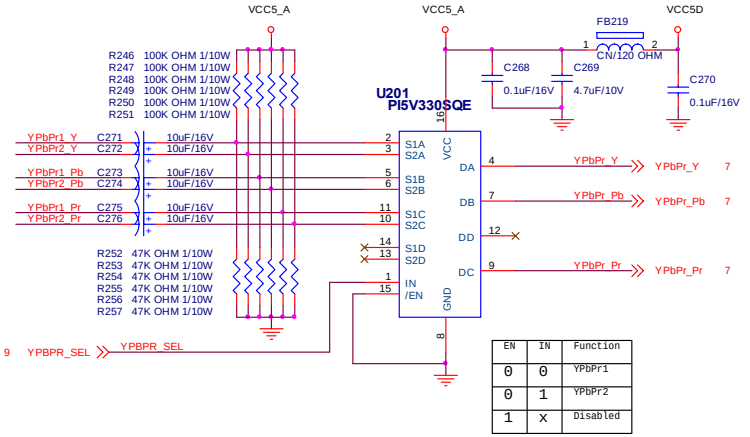


Side HMDI

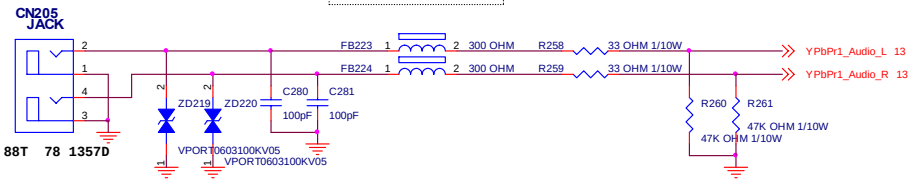
T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL X	Size	Custom
版 版 瓜 版 版	TPV MODEL X	Rev	B
Key Component	PCB NAME 715T2830		
Date Monday, March 03, 2008	Sheet 5 of 18		

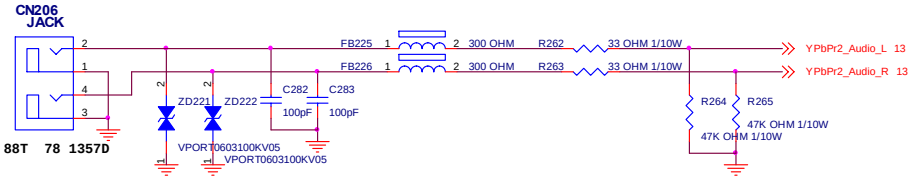
YPbPr Input

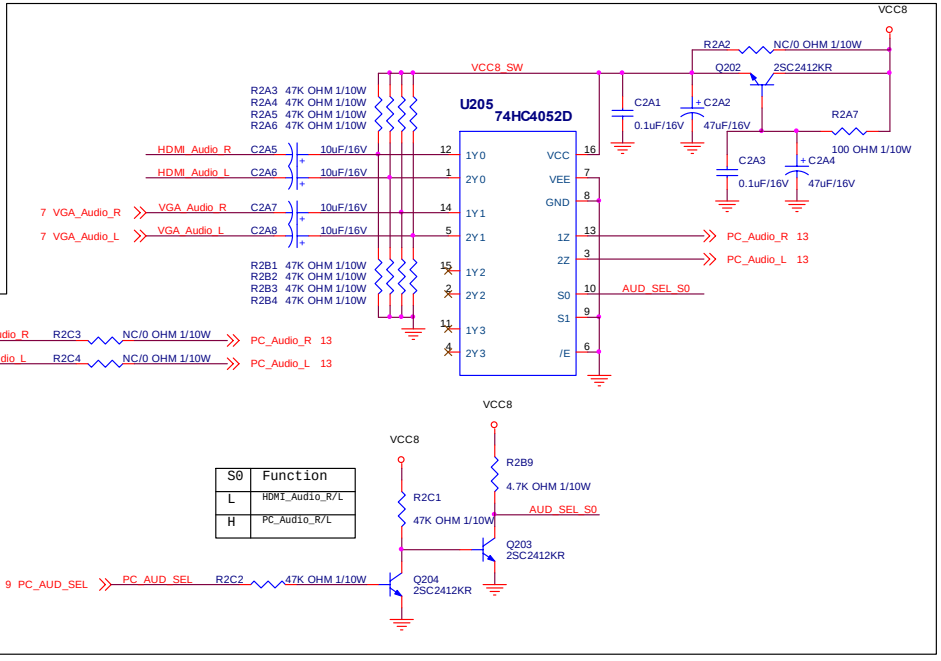




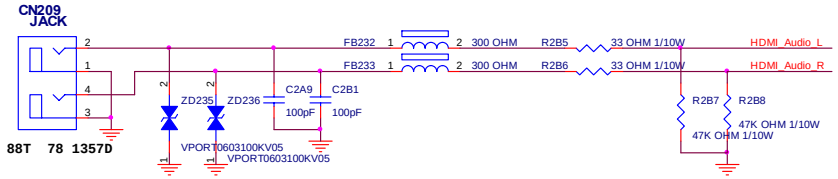
EN	IN	Function
0	0	YPbPr1
0	1	YPbPr2
1	x	Disabled





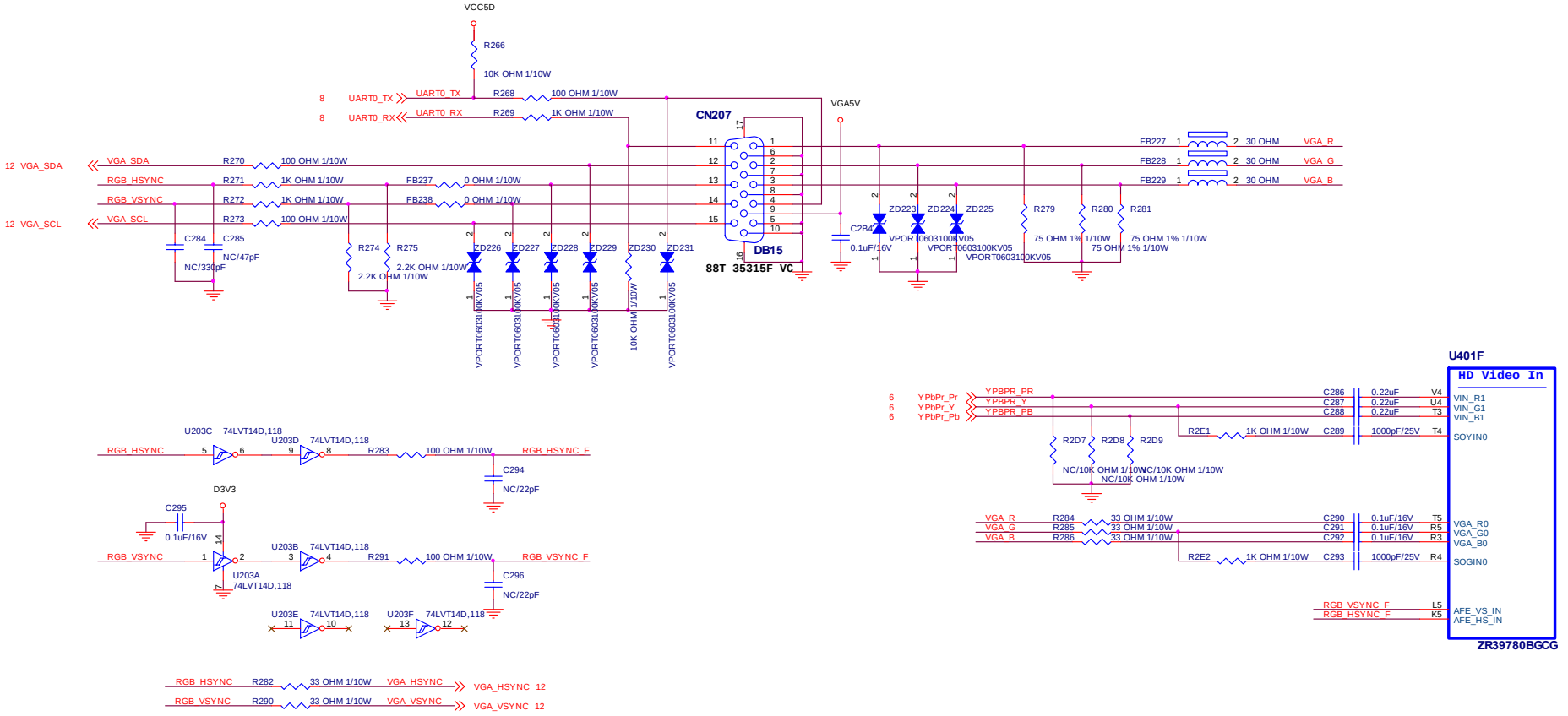


HDMI Audio Input(DVI mode)

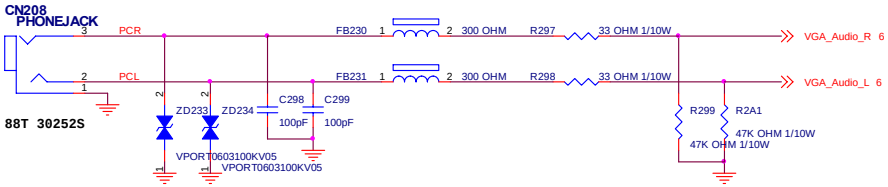


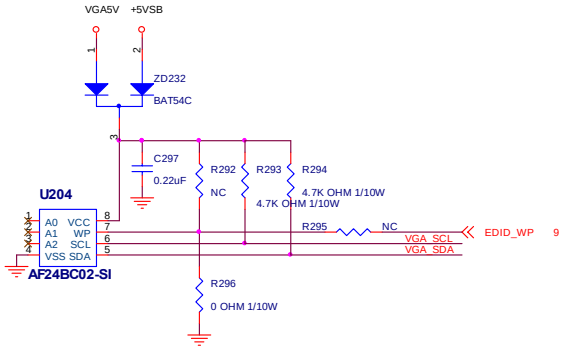
S0	Function
L	HDMI_Audio_R/L
H	PC_Audio_R/L

T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
話 隔 瓜 鎖 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	06-YPbPr Inputs	PCB NAME	715T2830	称多	<称多>
Date	Monday , March 03, 2008	Sheet	6 of 18		

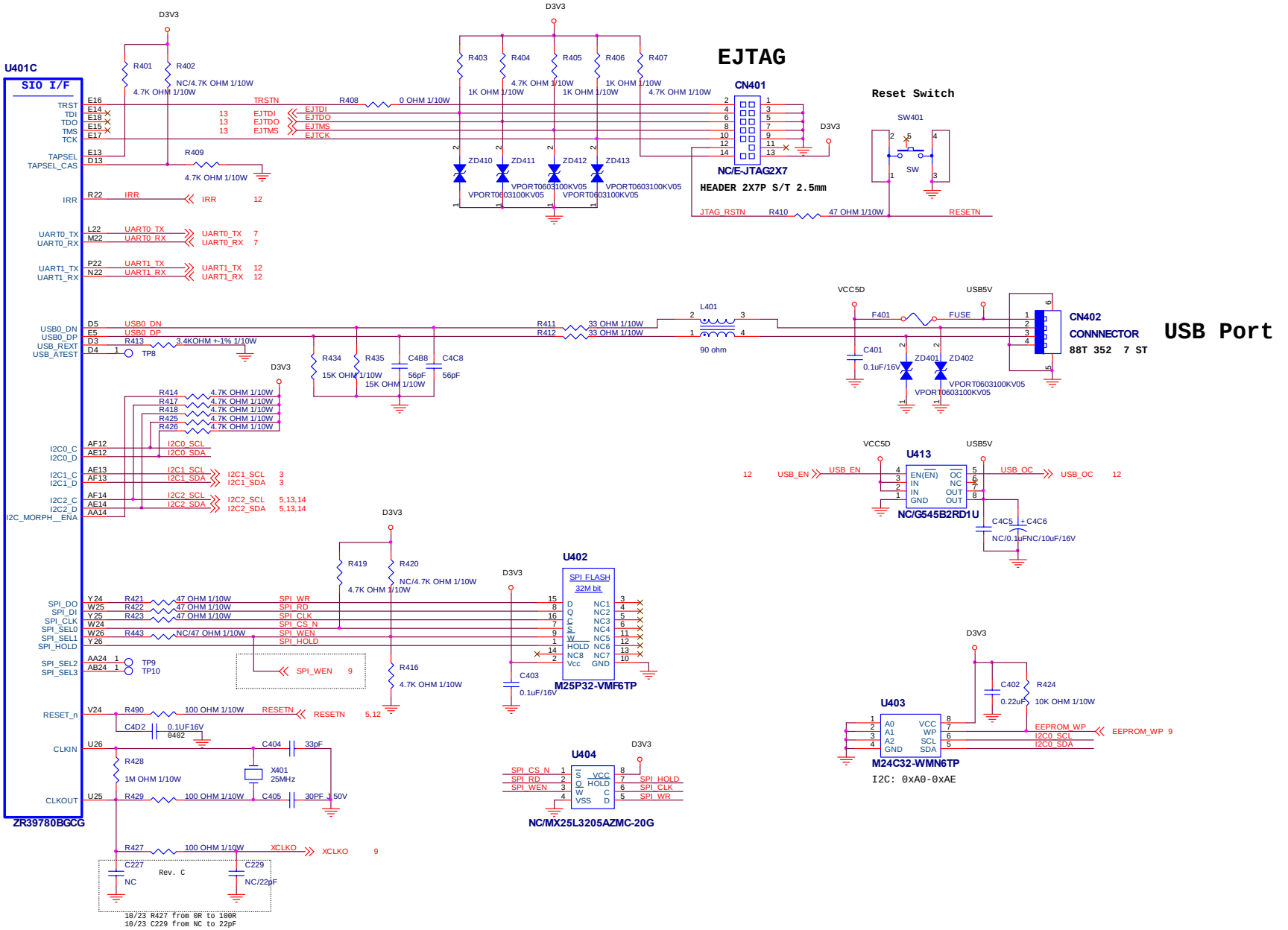


VGA Audio Input

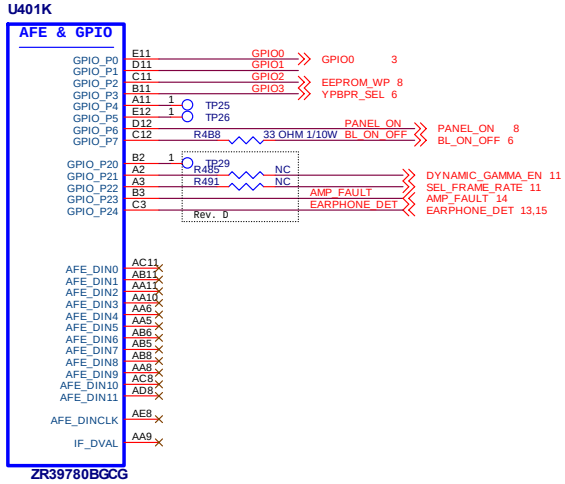




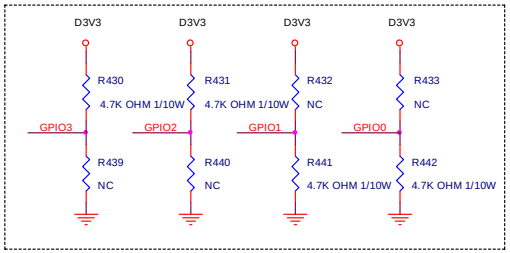
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	X	Size	Custom
結 陽 瓜 鍋 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	06-VGA Input	PCB NAME	715T2830	称 爹	<称爹>
Date	Monday, March 03, 2008	Sheet	7 of 18		



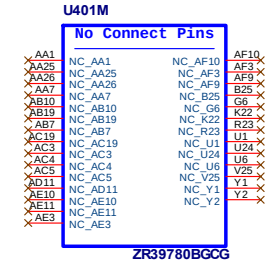
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
結 隔 瓜 旗 服	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	08-SIO I/F	PCB NAME	715T2830	務 爹	<務爹>
Date	Monday , March 03, 2008	Sheet	8 of 18		

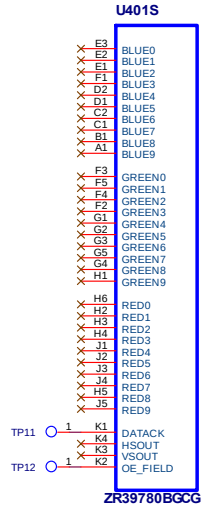


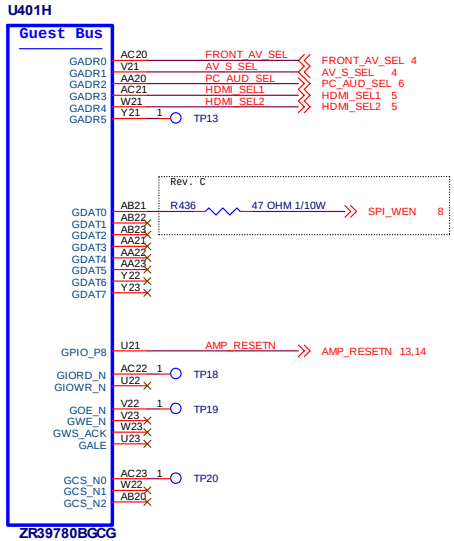
Bootstrap Configuration

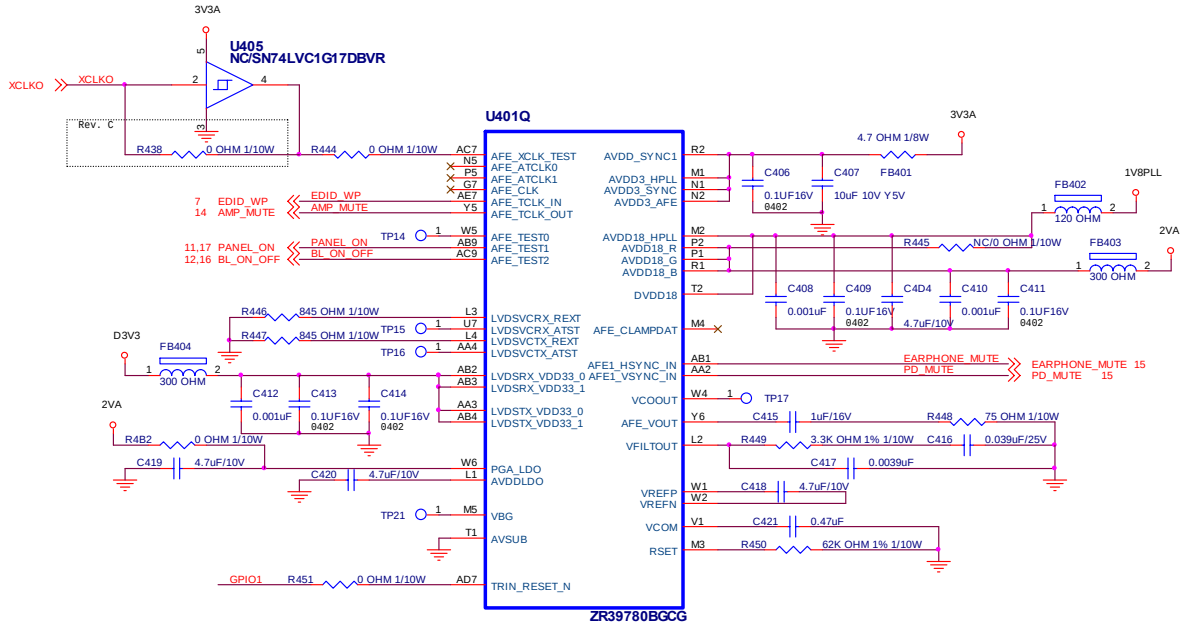


Boot Option	GPIO3	GPIO2	GPIO1	GPIO0
16-Bit NAND-Small Page	1	0	1	1
SPI	1	1	0	0
8-Bit NAND-Large Page	1	1	0	1
8-Bit NAND-Small Page	1	1	1	1

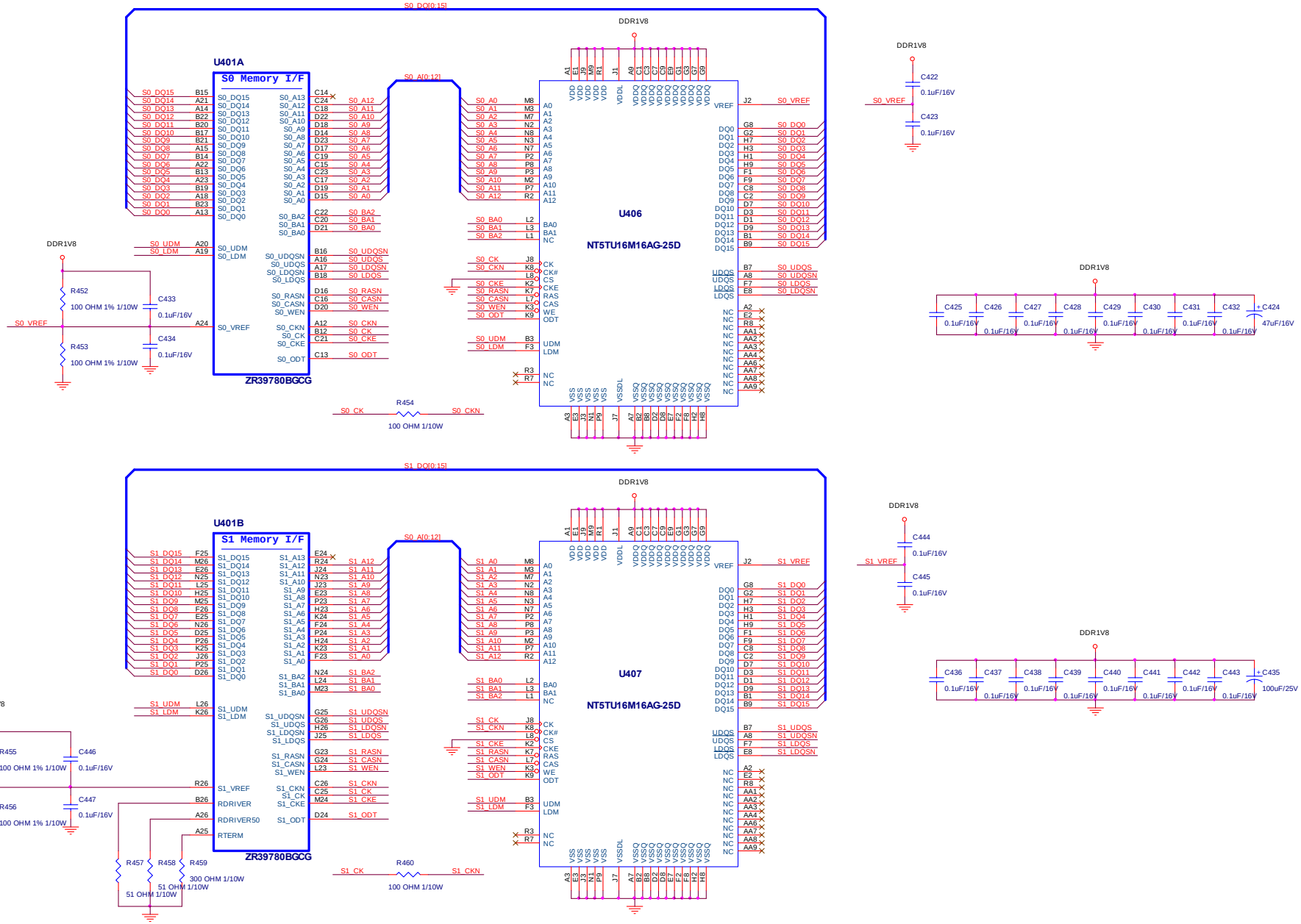




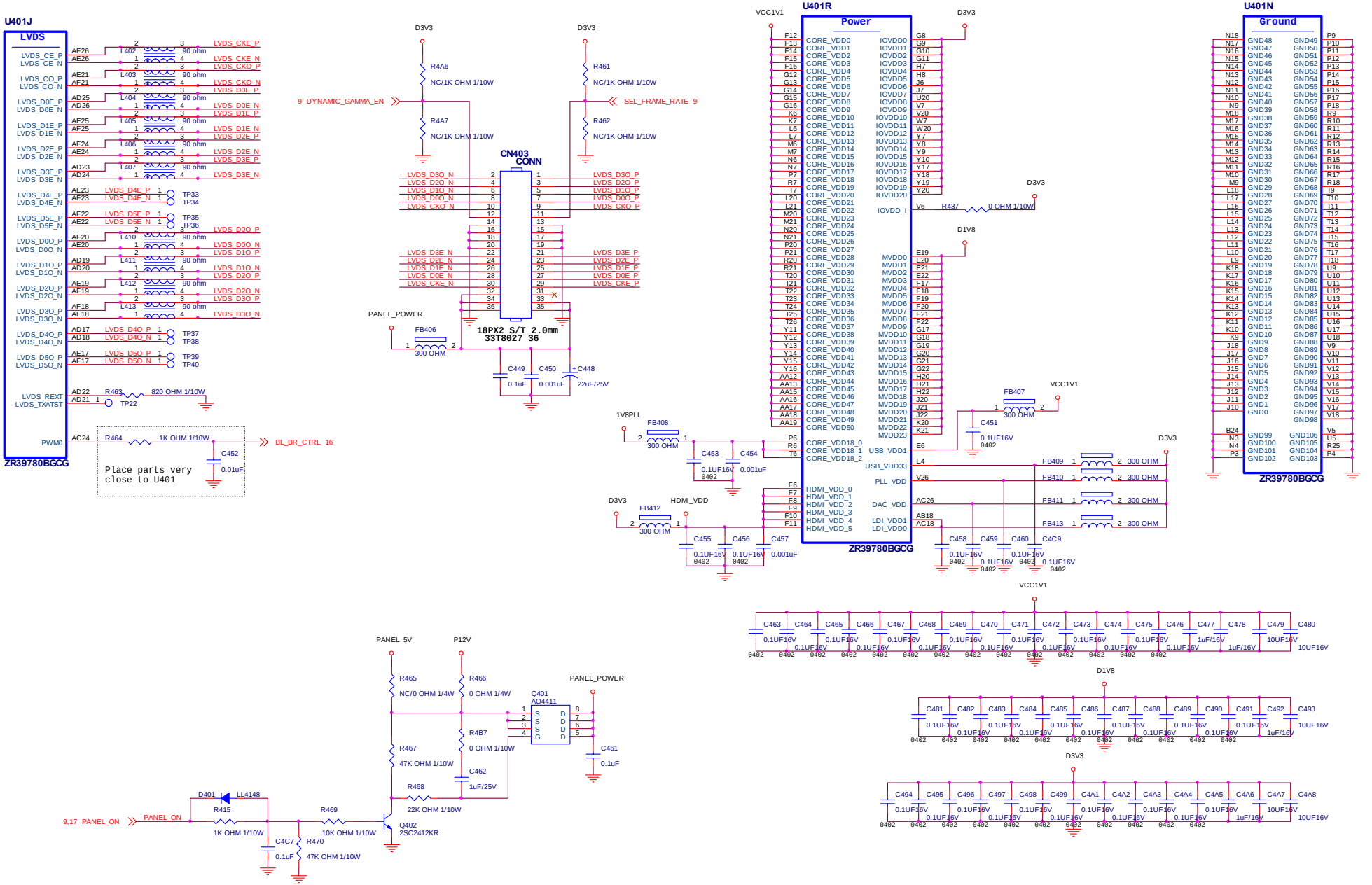




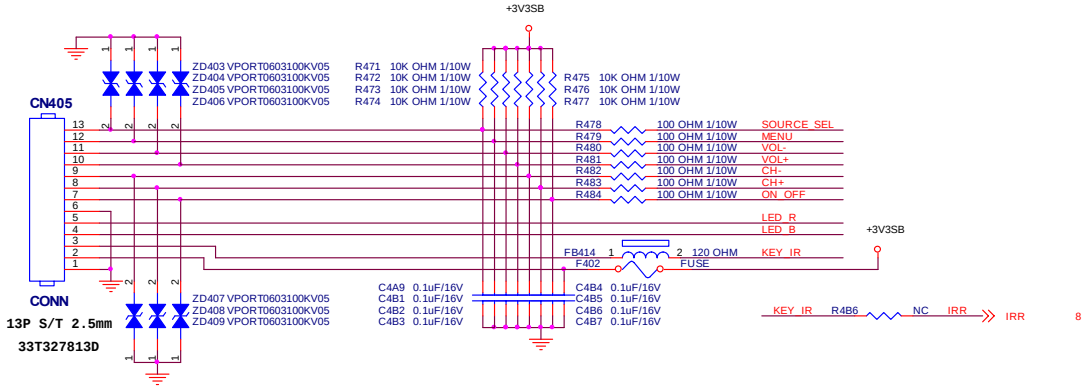
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
結 隔 瓜 鋼 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	09-GPIO Block	PCB NAME	715T2830	称多	<称多>
Date	Monday , March 03, 2008	Sheet	9 of 18		

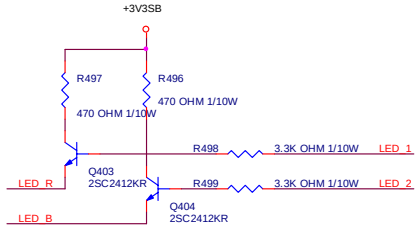


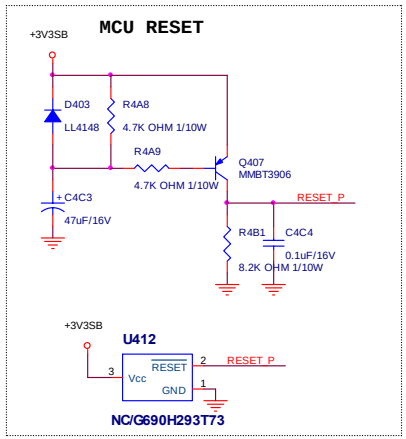
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
紙 隔 瓜 銅 膜	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	10-DDRII SDRAM I/F	PCB NAME	715T2830	称 爹	<称爹>
Date	Monday, March 03, 2008	Sheet	10 of 18		

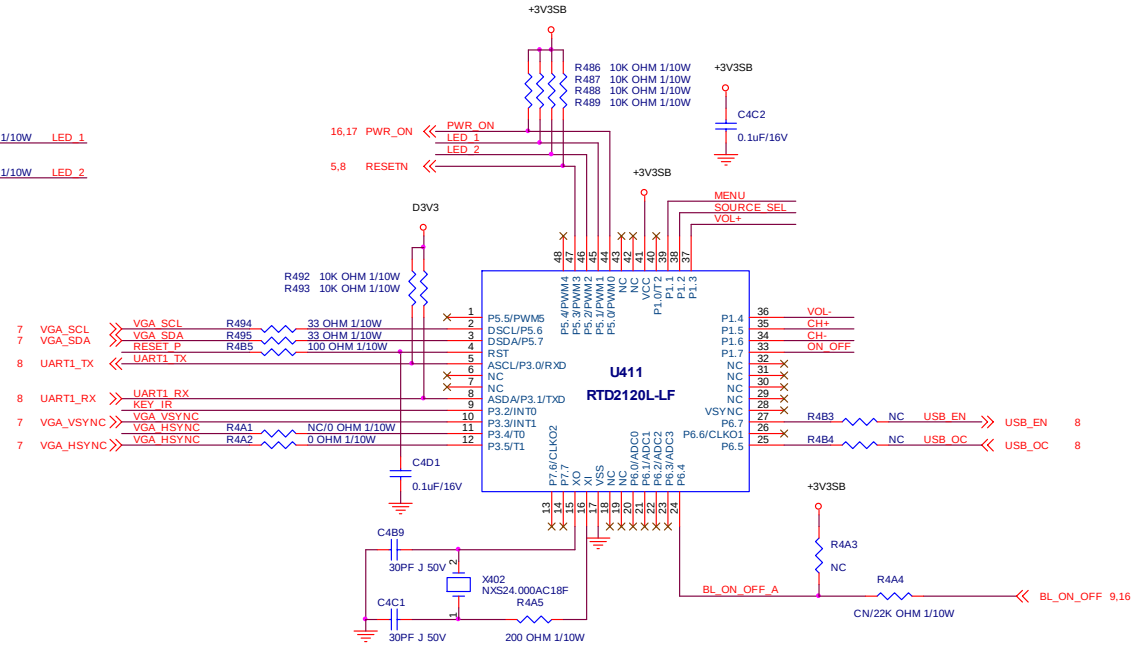


T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	X	Size	Custom
版 隔 瓜 銅 製	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	11-LVDS I/F	PCB NAME	715T2830	條	<條>
Date	Tuesday, March 04, 2008	Sheet	11 of 18		

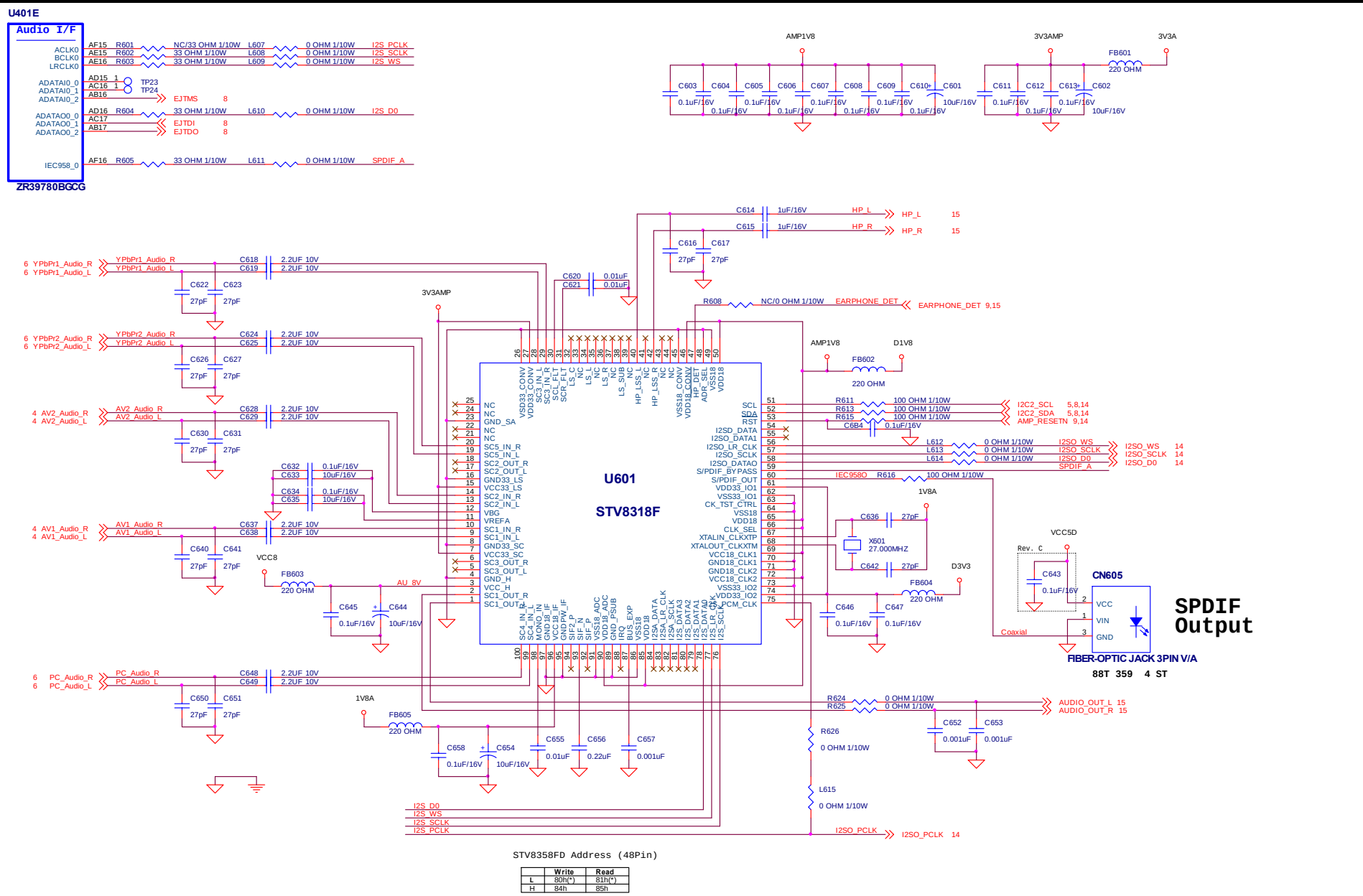






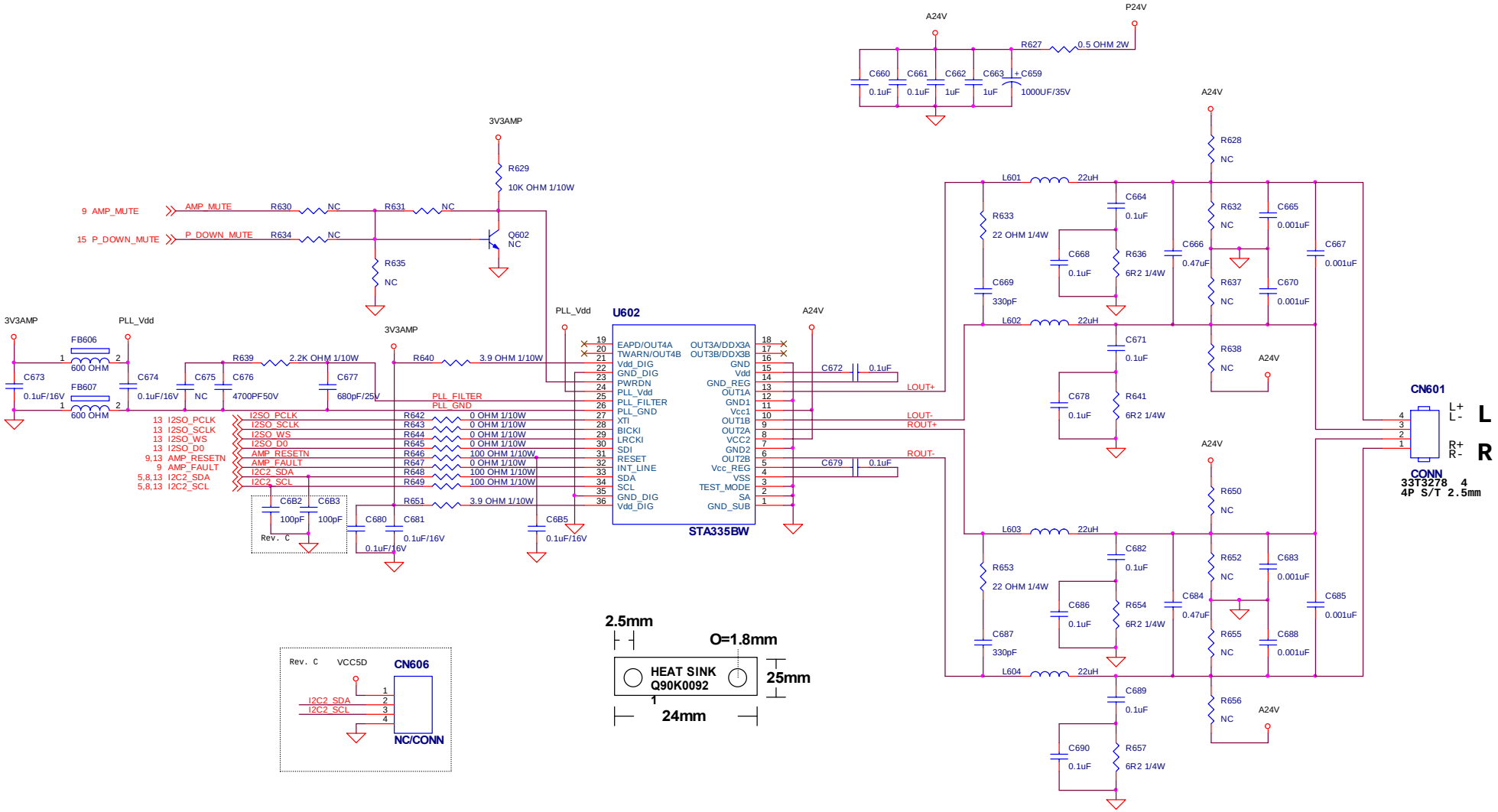


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
結 隔 瓜 銀 服	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	12-Standby MCU	PCB NAME	715T2830	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	12 of 18		

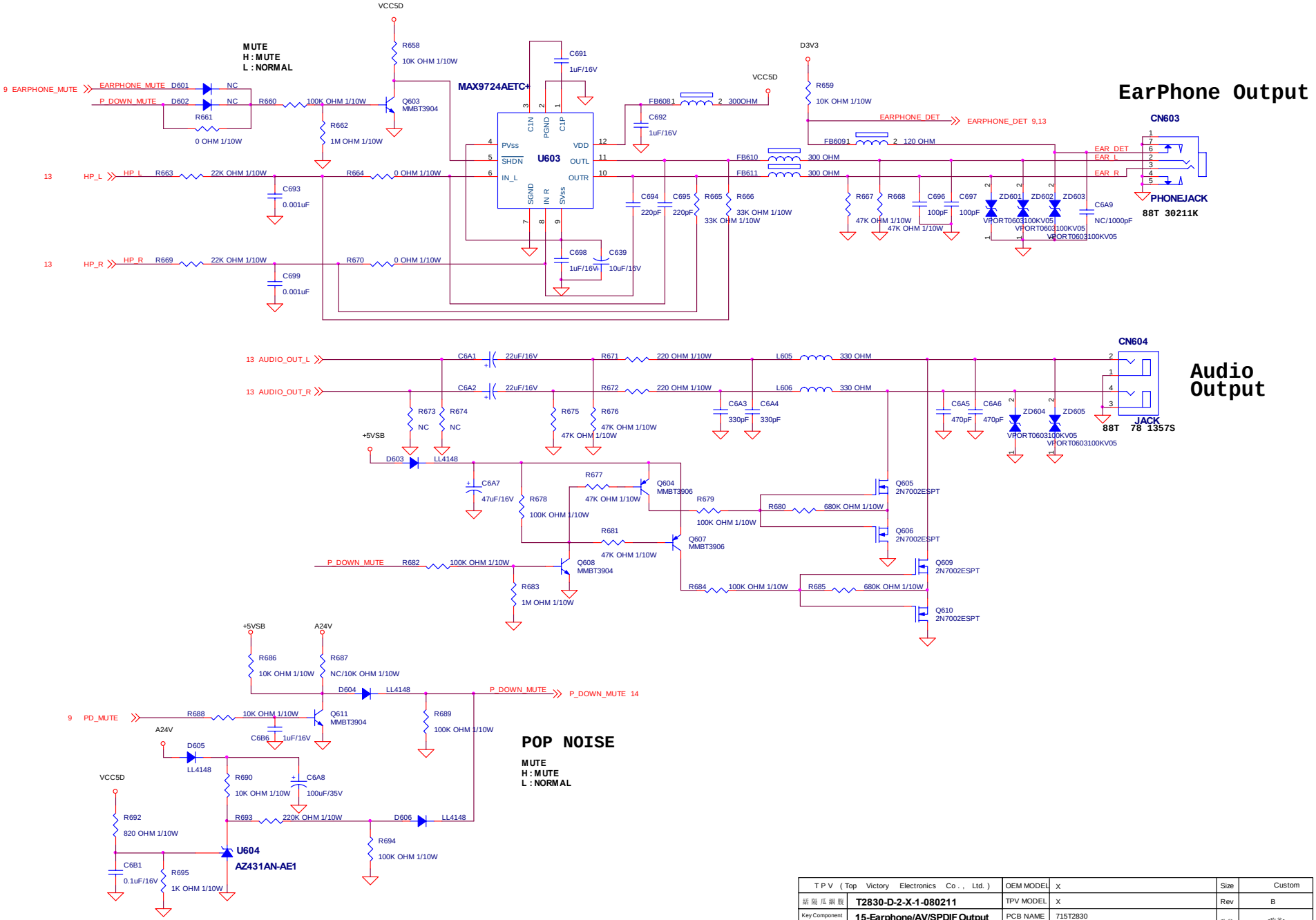


	Write	Read
L	80h(*)	81h(*)
H	84h	85h

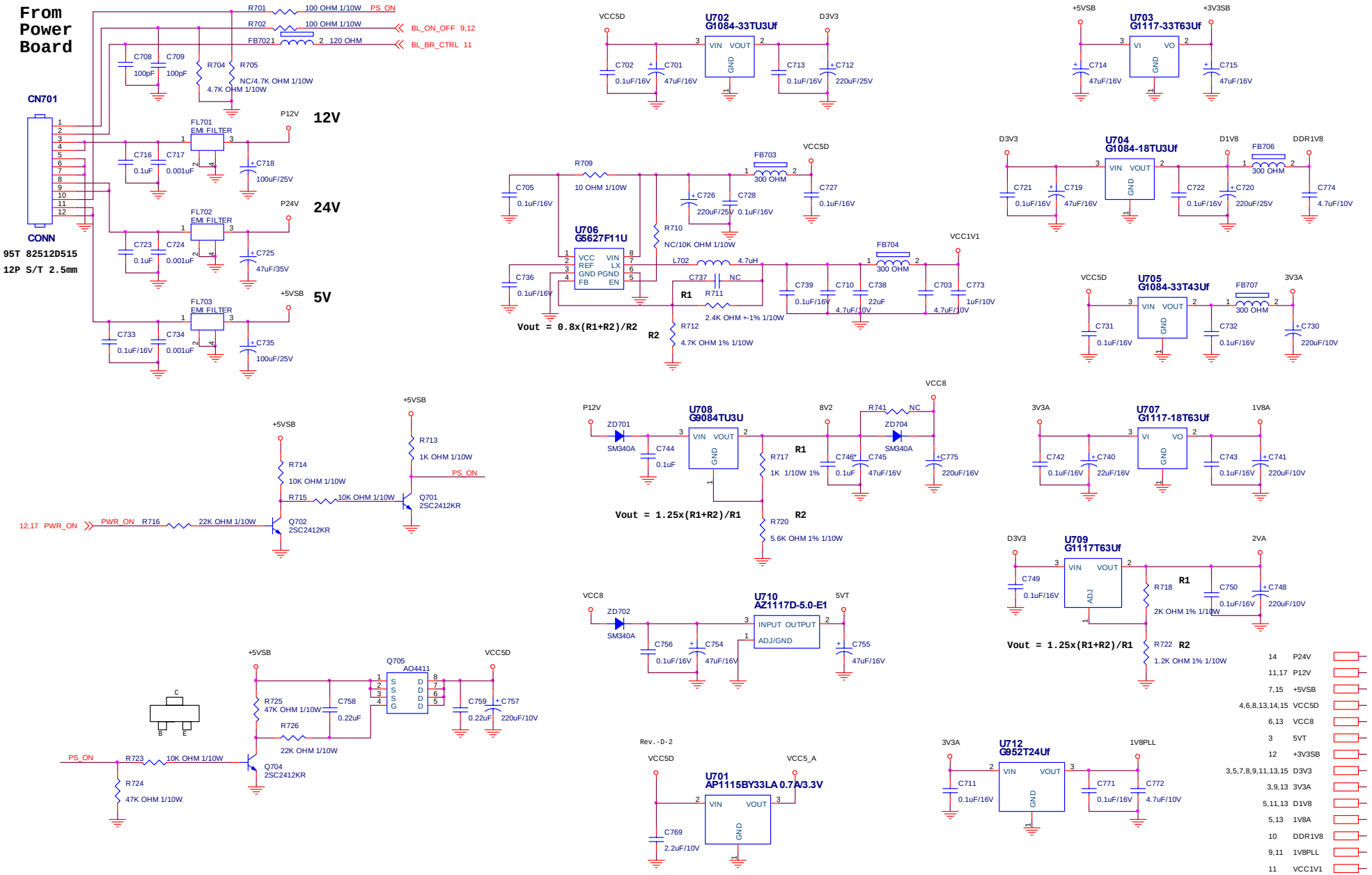
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	X	Size	Custom
結陽瓜銅版	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	13-Audio Processor	PCB NAME	715T2830	称爹	<称爹>
Date	Monday, March 03, 2008	Sheet	13 of 18		



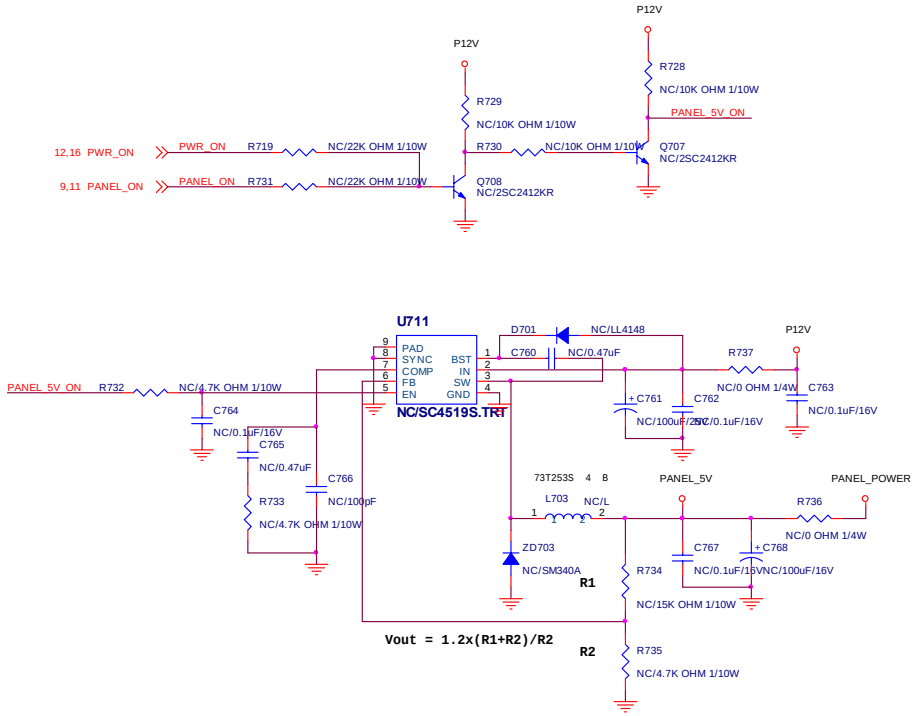
T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL	X	Size	Custom
結 隔 瓜 鋼 股	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	14-Audio Amplifier	PCB NAME	715T2830	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	14 of 18		



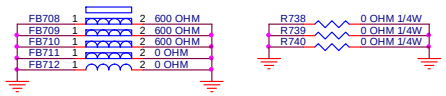
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
話 隔 瓜 猢 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	15-Earphone/AV/SPDIF Output	PCB NAME	715T2830	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	15 of 18		



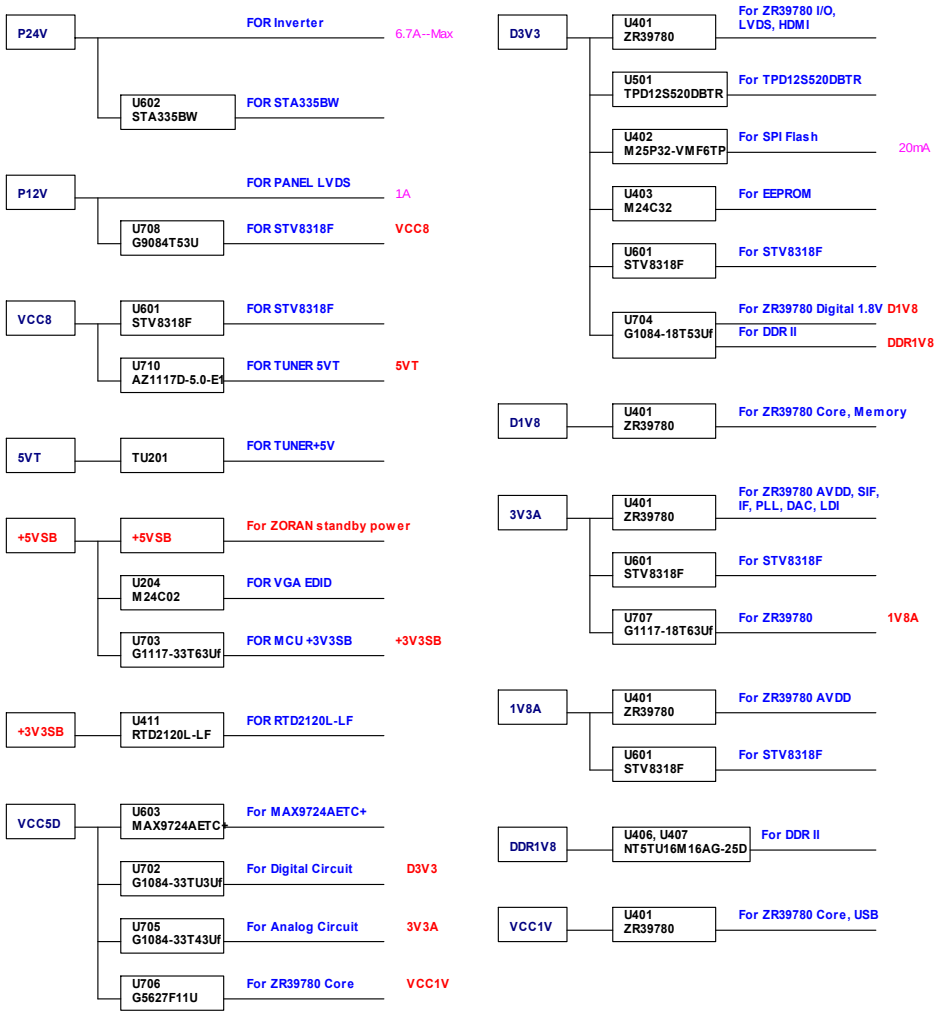
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
結 陽 瓜 編 腹	T2830-2-2-X-1-080231	TPV MODEL	X	Rev	B
Key Component	15-Power	PCB NAME	715T2830	称 多	<称多>
Date	Monday, March 03, 2008	Sheet	16 of 18		



For 32' 5V PANEL Power

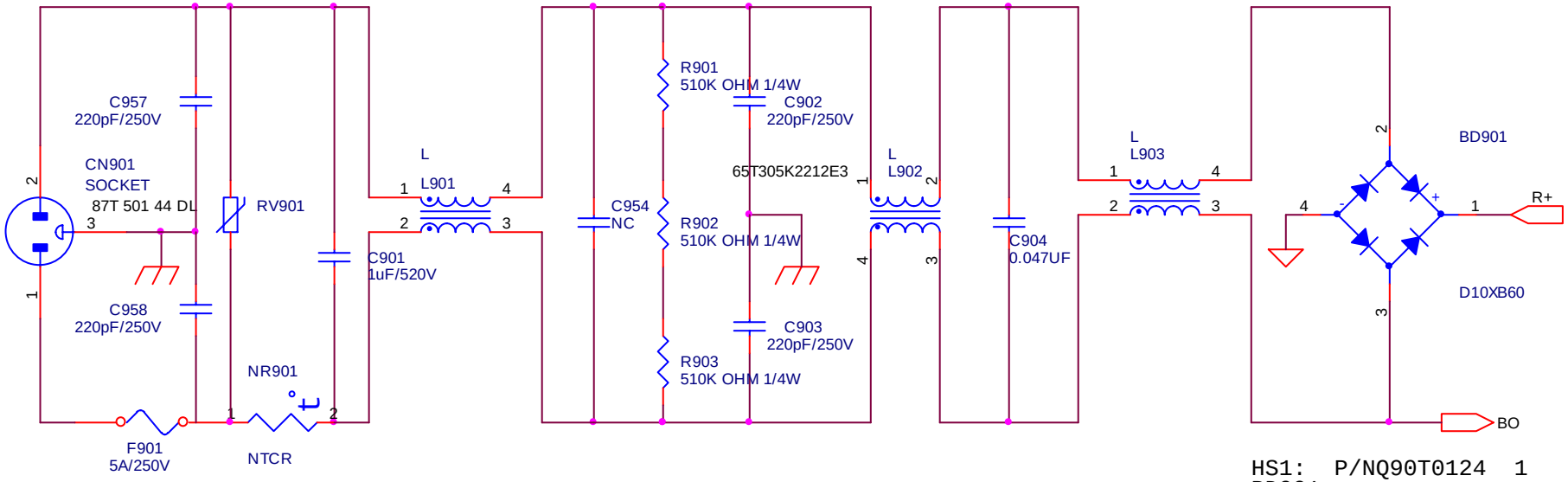


POWER INPUT TYPE
+5VSB , P12V, P24V



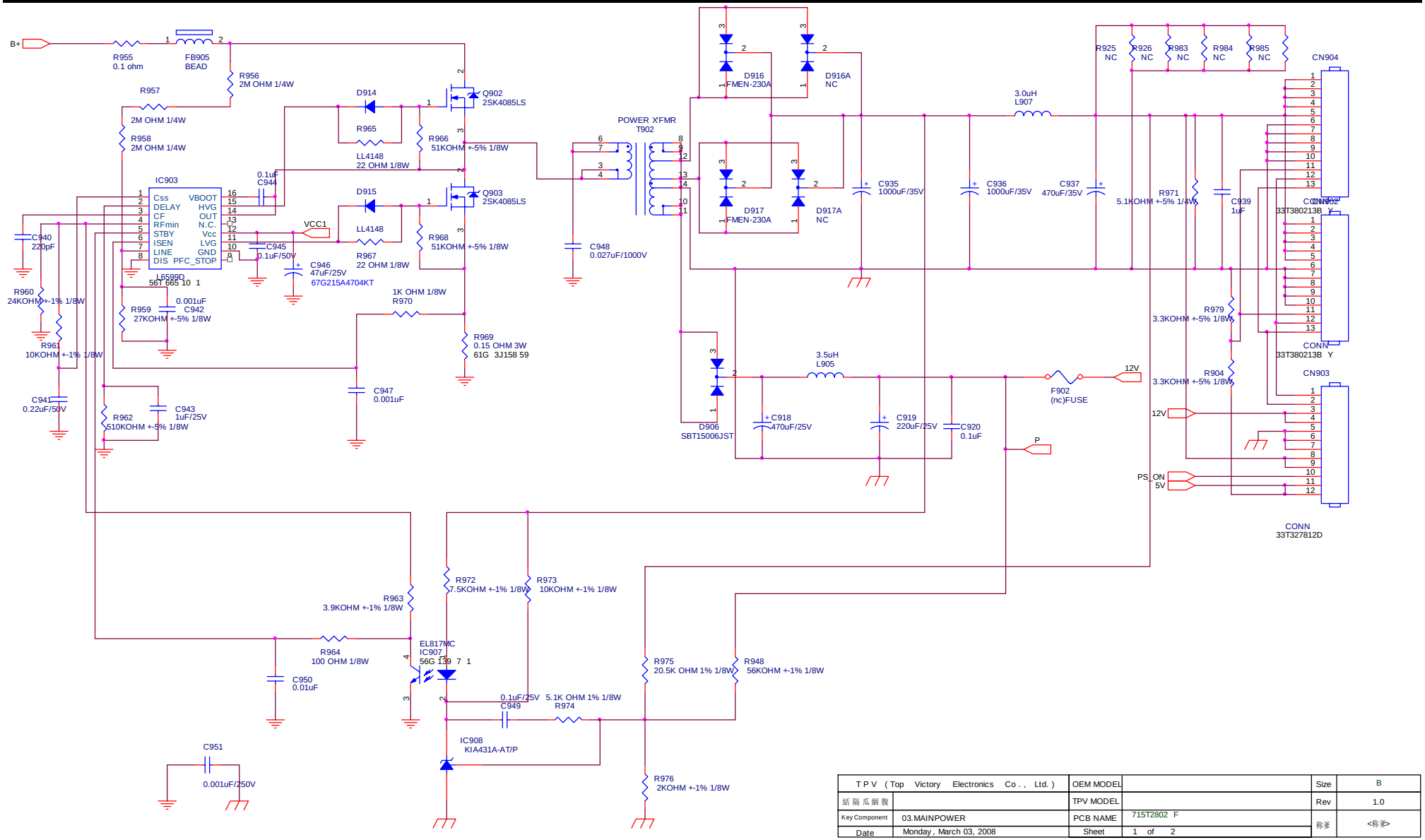
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
版 隔 瓜 編 腹	T2830-2-2-X-1-080231	TPV MODEL	X	Rev	B
Key Component	17-Power & Power Loop	PCB NAME	715T2830	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	17 of 18		

9.2 Power Board

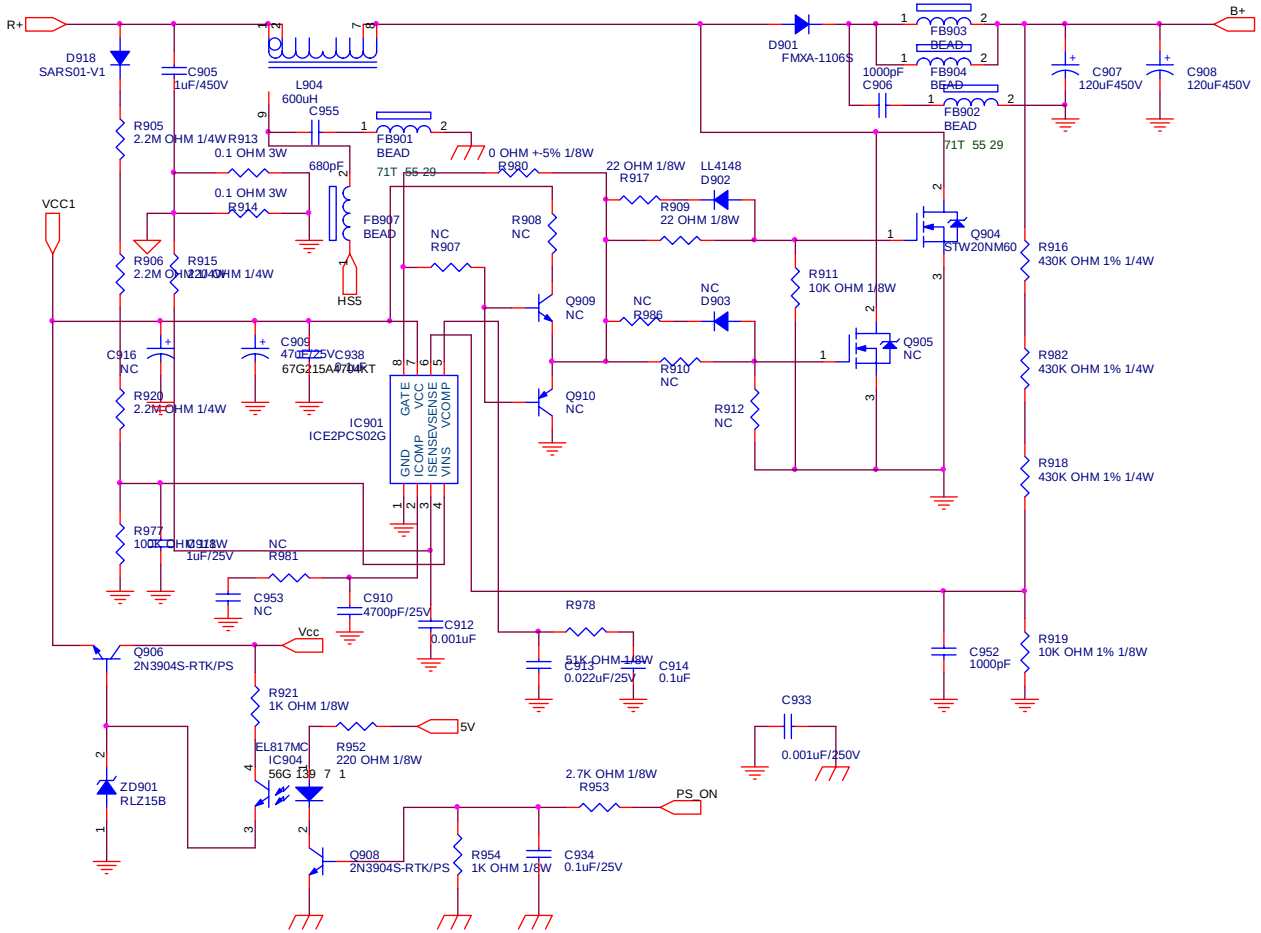


HS1: P/NQ90T0124 1
BD901

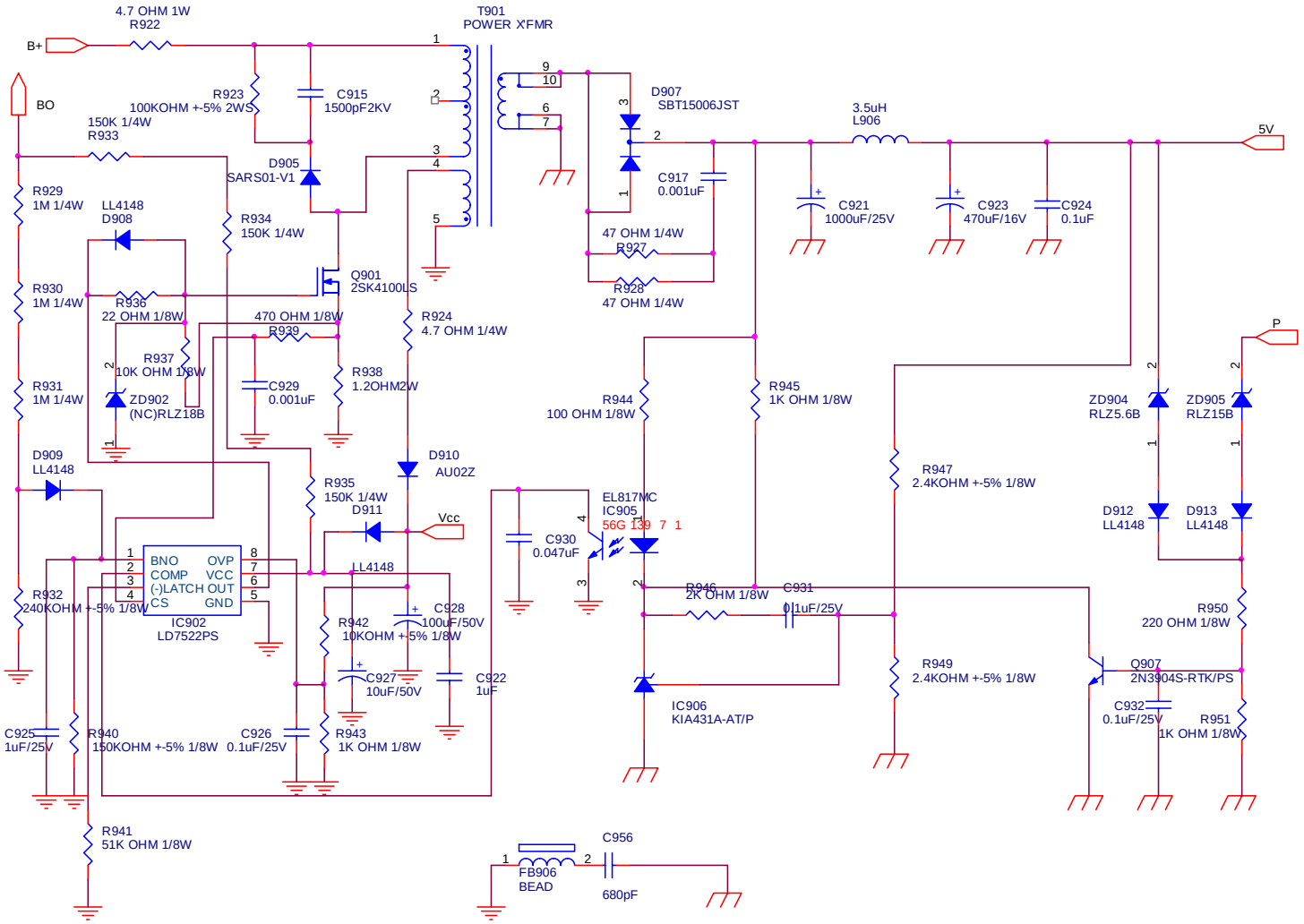
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL		Size	A
結 隔 瓜 綑 腹		TPV MODEL		Rev	1.0
Key Component	02.ACside	PCB NAME	715T2802 F	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	1 of 2		



T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL		Size	B
結 隔 瓜 綢 腹		TPV MODEL		Rev	1.0
Key Component	03.MAINPOWER	PCB NAME	715T2802_F	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	1 of 2		

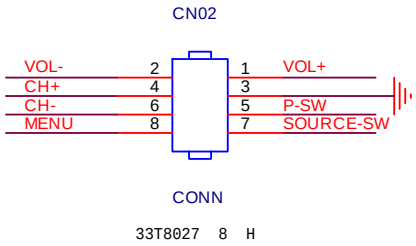


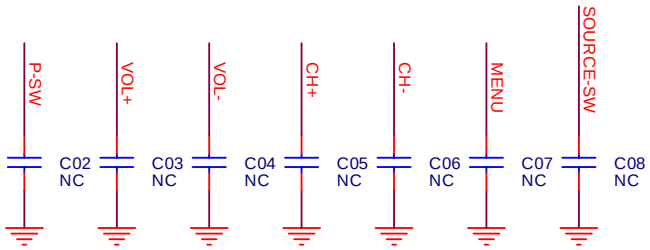
T P V （Top Victory Electronics Co.， Ltd.）		OEM MODEL		Size	B
話 隔 爪 鋼 腹		TPV MODEL		Rev	1.0
Key Component	04.PFC	PCB NAME	715T2802 F	称多	<称多>
Date	Monday, March 03, 2008	Sheet	1 of 2		

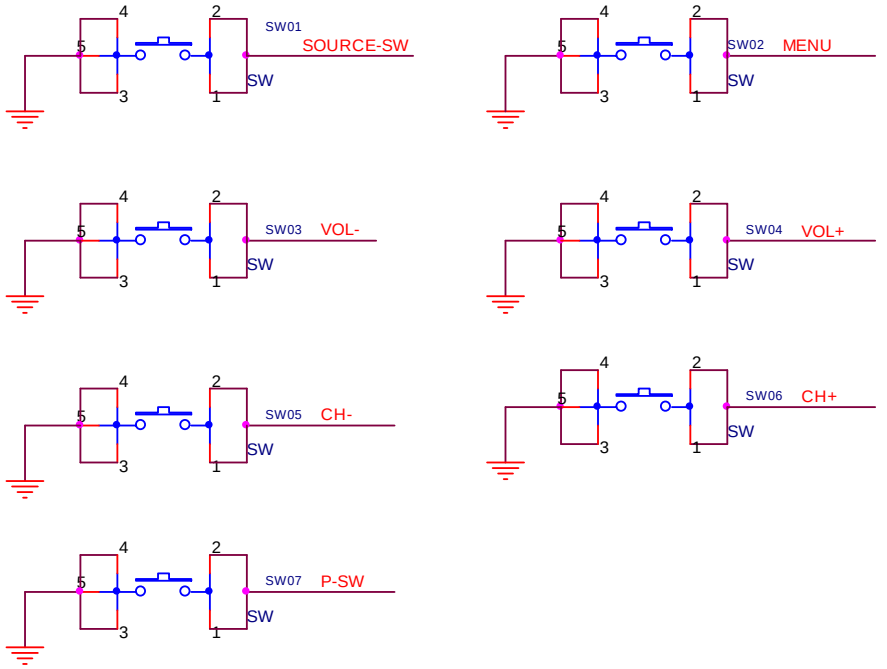


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL		Size	B
結 隔 瓜 網 腹		TPV MODEL		Rev	1.0
Key Component	05.STANDBY	PCB NAME	715T2802 F	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	1 of 2		

9.3 Key Board

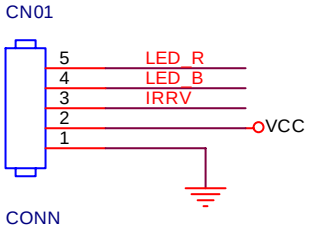


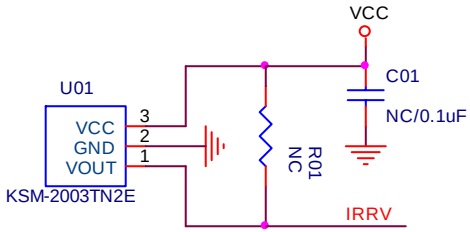


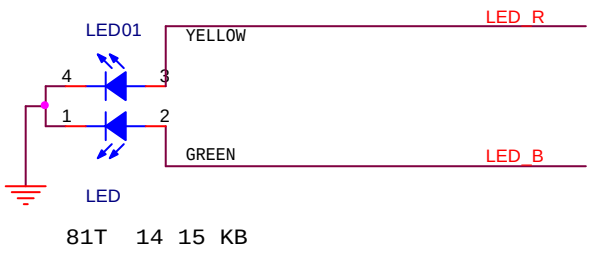


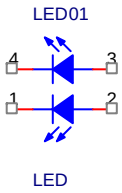
Title		
Size A	Document Number 715T2833	Rev A
Date: Thursday, August 02, 2007	Sheet 1 of 1	

9.4 IR Board



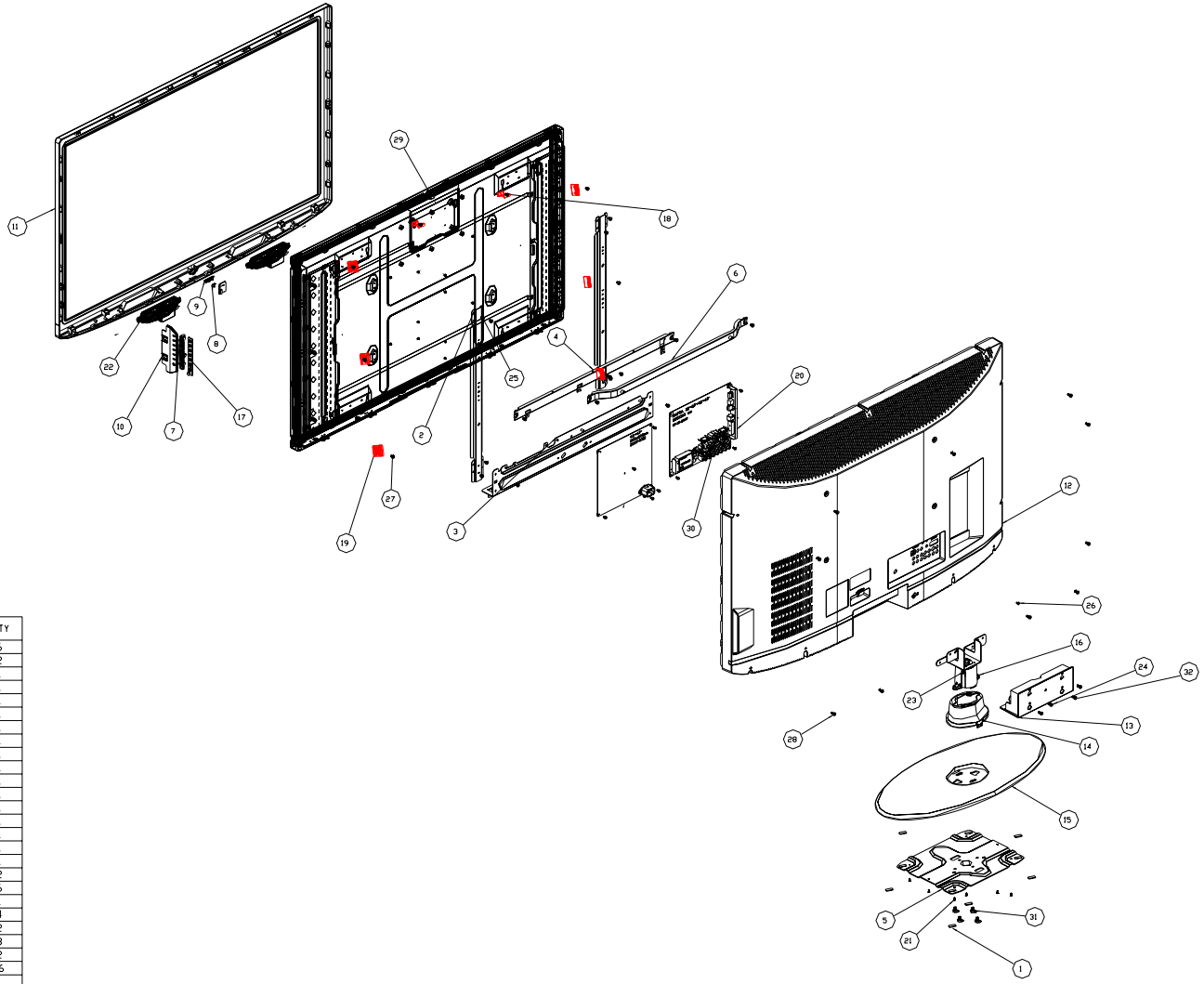






Title			
Size A	Document Number 715T2832		Rev A
Date: Friday, September 28, 2007	Sheet 1 of 1		

10. Exploded View



ITEM	PART NO.	DESCRIPTION	Q'TY
1	12T6300-25-1	RUBBER-FOOT	6
2	A15T0297-101	2K8-42-BKT-PANEL-CMO	2
3	A15T0298-101	2K8-42-BKT-SATND	1
4	A15T0299-101	2K8-42-BKT-PCB	1
5	A15T0301-101	2K8-42-BKT-BASE	1
6	A15T0302-101	2K8-42-BKT-VESA	1
7	A33T0305-101	BA-KEYPAD	1
8	A33T0306 1 IC	BA-LED-1	1
9	A33T0307 ED IC	BA-IR-1	1
10	A33T0304 GMAIL	BA-KEY-COVER	1
11	A34T0541 GM AL	2K8-42-COVER-BEZEL-1	1
12	A34T0542 GM IA	2K8-42-COVER-REAR-1	1
13	A34T0543	2K8-42-COVER-NECK	1
14	A34T0544 GM IL	2K8-42-COVER-STAND	1
15	A34T0545 GM IL	2K8-42-COVER-BASE	1
16	A37T0060-011	2K8-42-ASSY-SWIVEL	1
17	A33T0305 OV IL	2K8-32_KEY-PAD	1
18	A15T0320-101	CMO-FIX	2
19	A15T0321-101	CMO-FIX-SIDE	6
20		2K8-OTS-NAFTA-DJ-PCB-A	1
21	MIT130-8-120	C-P3X8	4
22		C1530A	2
23	MIT930-6-47-CR3	HEAD9-M3X6	3
24	MIT940-16-47-CR3	HEAD9-M4X10	2
25	MIT940-6-120	HEAD9-M4X6	16
26	QIT930-8-47-CR3	HEAD9-P3X6	1
27	QIT930-8-120	HEAD9-P3X8	8
28	QIT940-16-47-CR3	HEAD9-P4X10	12
29		PANEL-CMO-V420H1-L07	1
30	MIT730-8-120	RW-M3X8	12
31	001T6022-1	SCREW_M6_PAN-HOOK	4
32	QIT940-20-47-CR3	SPK-ASM-07092007_ASM	2

11. BOM List

E428MZNKW1BCNN

Location	Part No.	Description
	001T6021 1	SCREW
	050T 500 1	CABLE TIE
	050T 500 1	CABLE TIE
	052T 1150 C	BLACK TAPE
	078T 499 1 G	SPEAKER 8 OHM 11W 156X30MM
	089T402A18N IS	POWER CORD
	092TB1JX1A31GM	PEONY A1KALINE LR03
E09501	095T801313X 18	HARNESS 13P-5P+8P 620MM
E09505	095T8014 4X559	WIRE HARNESS 4P(PLUG)-B&R+B&W
E09502	095T801413D 30	HARNESS 12P-13 550MM
E09503	095T801414D106	HARNESS 14P-13P 500MM
E09504	095T801851X 3	HARNESS 51P-36P 260MM
	098TRABDANEBYA	REMOTE CONTROL INSIGNIA BLACK
	0M1T 930 6 47 CR3	SCREW
	0M1T 930 6120	SCREW M3-0.5X6
	0M1T 940 6120	SCREW
	0M1T 940 16 47 CR3	SCREW M4X6
	0M1T1730 8120	SCREW
	0M1T1730 8120	SCREW
	0M1T6022500	SCREW
	0Q1T 930 8 47 CR3	SCREW
	0Q1T 930 8120	SCREW
	0Q1T 940 16 47 CR3	SCREW
	0Q1T 940 20 47 CR3	SCREW
	705TQ734554	BEZEL ASS`Y
	705TQ734555	REAR COVER ASS`Y
	705TQ734556	STAND ASS`Y
	750TVMT0H1731N	PANEL V420H1-L07 C2 TW CMO
	A15T0287101	BKT-IO-US
	A15T0297101	PANEL BRACKET CMO
	A15T0298101	STAND BRACKET
	A15T0299101	PCB BRACKET
	A15T0302101	VESA BRACKET
	A15T0320101	FIX BRACKET FOR CMO L07
	A15T0321101	FIX BRACKET FOR CMO L07 SIDE
	A34T0543 GM 1L0100	NECK COVER
	ADPC24250BB1	ADAPTER BOARD
	CBPF8Z6KA1	MAIN BOARD
	IRPF8QA9	IR BOARD
	KEPF7QAA	KEY BOARD

	Q23T3178976 3A	INSIGNIA LOGO
	Q40T0001624 4A	PALLET LABEL
	Q44T3231 21 30	EVA WASHER
	Q44T3231 21 45	EVA WASHER
	Q44TN005101	EPS CUSHION
	Q44TN005201	EPS CUSHION
	Q44TN005301	EPS CUSHION
	Q44TN005401	EPS CUSHION
	Q44TN005976 1A T	42" TV TOP CARTON
	Q45T 99609 3 R	EPE COVER
	Q45T 99609 60	EPE COVER FOR BASE
	041T 68508 A	CONTROL CARD
	Q45T2007M0102A	PE BAG
	Q41T4201976 1A	MANUAL
	Q41T7800976 6A	QSG FOR NS LCD42HD 09
	040T 581 26704	SHIPPING LABEL
	040T 58162435A	LABEL
	Q26T 800504 2	BARCODE
	Q40T0002976 4A	LABEL
	Q40T 420976 1A	RATING LABEL
	Q40T000262430A	IO LABEL
	Q40T000297618A	IO LABEL
	Q40T0001976 1A	CARTON LABEL
	045T 77 3	PE PACKING
	049T 51 1A	ERADICATOR
	052T 1186	SMALL TAPE
	052T 2191 A	TAPE
	Q36T 600 46 1	NONWOVEN FABRIC
	089T 17356G554	AUDIO CABLE
	089T 725HAA DB	D-SUB
	Q44TN005976 1A B	42" TV BOTTOM CARTON
	Q44TN005BLO001	PAPER SHEET
	Q44TN005 5 1A	U TYPE SHEET FOR BASE
	Q11T5044 1BBY	CLIP JOINTER
	044T6000 4 6B	SPACE PAPER
	Q44TSLIP00130A	PAPER SLIPSHEET
	Q44TSLIP00131A	PAPER SLIPSHEET
	Q44T6002115101	PAPER BOARD
	044T6002709 3A	PAPER BOARD
	052T 1185	MIDDLE TAPE FOR CARTON
	044T3231 15531	EVA
	Q50T 500523	CABLE TIE
	Q36T 600 35 17 GP	NONWOVEN FABRIC

	0Q1T 930 6120	SCREW
	A33T0304 GMA1L0100	COVER_FUNC
	A33T0305 QV 1L0100	BUTTON_FUNC
	A33T0306 1 1C0100	POWER LENS
	A33T0307 ED 1C0100	LENS_IR
	A34T0541 GM AL0130	BEZEL TV42W-8A1
	A15T0282101	BKT-VESA-BTM
	A34T0542 GM 1A0100	REAR COVER 42"
	0M1T 130 6120	SCREW
	0Q1T 130 10120	SCREW
	A15T0301101	BASE BRACKET
	A34T0544 GM 1L0100	STAND COVER A1
	A34T0545 GM 1L0133	BASE COVER FOR S1
	A37T0060011	HINGE
	Q12T6300 25 1	FOOT PAD
	040G 45762412B	CBPC LABEL
	009T6005 1	GROUND TERMINAL
CN903	033T327812D	WAFER 12P PLUG
CN904	033T380213B Y	CONNECTOR
CN902	033T380213B Y	CONNECTOR
	051G 6 4503	GLUE_RTV
IC907	056G 139 7 1	IC EL817MA M-TYPE
IC905	056G 139 7 1	IC EL817MA M-TYPE
IC904	056G 139 7 1	IC EL817MA M-TYPE
R969	061G 3J158 59	0.15 OHM +-5% 3W
RV901	061T 46 17	VARISTOR 560V TNR14V561K
R914	061T153M108 59	RST MOFR 0.1 OHM +-5% 3WS
R913	061T153M108 59	RST MOFR 0.1 OHM +-5% 3WS
C904	063T107K474 US	X2 CAP 0.47UF K 275VAC
C948	063T210J2735C2	MPP 27NF J 1000V
C901	063T210K105BCN	MPP CAP 1UF 520V P=15MM
C905	063T213J105GFA	MPF CAP
C957	065T305K2212E3	Y2 CAP 220PF / 250V 10%
C903	065T305K2212E3	Y2 CAP 220PF / 250V 10%
C902	065T305K2212E3	Y2 CAP 220PF / 250V 10%
C958	065T305K2212E3	Y2 CAP 220PF / 250V 10%
C955	065T306K6812BM	Y1 CAP 680PF 10% 250VAC KX
C956	065T306K6812BM	Y1 CAP 680PF 10% 250VAC KX
C933	065T306M1022B3	Y1 CAP 1000PF +-20% 250VAC CD SERIES
C951	065T306M1022B3	Y1 CAP 1000PF +-20% 250VAC CD SERIES
C921	067G215A1024KV	EC 1000UF 25V 12.5*20MM
C935	067T215A1026KV	EC 1000UF 35V 12.5*25MM
C936	067T215A1026KV	EC 1000UF 35V 12.5*25MM

C918	067T215A4714KT	EC 470UF 25V 10*16MM
C937	067T215A4716KT	EC 470UF 35V 10*16MM
C907	067T315Z12115K	CAP 105℃ 120UF M 450V
C908	067T315Z12115K	CAP 105℃ 120UF M 450V
L901	073L 174 49LSG	LINE FILTER
L903	073L 174 49LSG	LINE FILTER
L902	073L 174 52 LG	CHOKE COIL
L904	073T 174119 N	PFC CHOKE 600UH YUVA-841
L907	073T 253197 L	CHOKE COIL 3.0UH CC-009425
T901	080TL32T 5 N	X'FMR 1.9MH YUVA-827
T902	080TL42T 14 YS	X'FMR 600UH YS04160152
CN901	087T 501 44 DL	AC SOCKET 3PIN + 2 SCREW HOLE V/T
	705TQ757014	Q902/Q903 ASS`Y
	705TQ757015	Q901 ASS'Y
	705TQ761020	NR901 ASS'Y
	705TQ793024	D904/D901 ASS'Y
	705TQ793025	D907 ASS'Y
	705TQ793026	BD901 ASS'Y
	705TQ793027	D916&D917&D906 ASS'Y
L906	S73G25391V	CHOKE COIL ASS'Y
L905	S73G25391V	CHOKE COIL ASS'Y
C923	067T215A4713KT	EC 470UF 16V 10*12.5MM
CN405	033T327813D	CONNECTOR
CN601	033T3802 4B Y	CONNECTOR
CN403	033T8027 36	WAFER
	040T 457624 1B	CPU LABEL
	040T 45762412B	CBPC LABEL
R627	061T152M50852T	0.5OHM 5% 2W
C775	067T 305221 3T	220UF/16V
C720	067T215B221 4P	CAP 105C 220UF M 25V 8*12
C712	067T215B221 4P	CAP 105C 220UF M 25V 8*12
C726	067T215B221 4P	CAP 105C 220UF M 25V 8*12
C659	067T215S1026KV	EC CAP 1000UF 35V 12.5*25MM
C719	067T305V470 3	47UF +-20% 16V
C715	067T305V470 3	47UF +-20% 16V
C714	067T305V470 3	47UF +-20% 16V
C701	067T305V470 3	47UF +-20% 16V
C6A7	067T305V470 3	47UF +-20% 16V
C424	067T305V470 3	47UF +-20% 16V
C4C3	067T305V470 3	47UF +-20% 16V
C238	067T305V470 3	47UF +-20% 16V
C755	067T305V470 3	47UF +-20% 16V
C754	067T305V470 3	47UF +-20% 16V

C745	067T305V470 3	47UF +-20% 16V
L601	073T 259901 T	CHOKE 22UH 10% TSL0808RA-220K1R7
L602	073T 259901 T	CHOKE 22UH 10% TSL0808RA-220K1R7
L603	073T 259901 T	CHOKE 22UH 10% TSL0808RA-220K1R7
L604	073T 259901 T	CHOKE 22UH 10% TSL0808RA-220K1R7
SW401	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
CN205	088T 78 1357C	RCA JACK 1*1 W+R V/A
CN202	088T 78 1357C	RCA JACK 1*1 W+R V/A
CN206	088T 78 1357C	RCA JACK 1*1 W+R V/A
CN209	088T 78 1357C	RCA JACK 1*1 W+R V/A
CN604	088T 78 1357C	RCA JACK 1*1 W+R V/A
CN204	088T 78 1359S	RCA JACK+ S 3+1 Y/W/R
CN201	088T 78 13932 S	RCA JACK + S JACK Y/B
CN210	088T 7813A19C	RCA JACK 1*3 R/W/Y
CN203	088T 100 11 ST	MINI DIN JACK 4P+ SWITCH 2MJ-0602-005
CN603	088T 30211K	PHONE JACK
CN208	088T 30252C	PHONE JACK 3.5MM 3P V/A GREEN
CN402	088T 352 7 ST	USB CONNECTOR A TYPE REVERSE
CN207	088T 35315F VC	D-SUB 15PIN VERTICAL CONNECTOR
CN605	088T 359 5 JT	FIBER-OPTIC 3P V/T JST1227
	090T 372 2	HEAT SINK
X601	093T 2227S JZ	CRYSTAL 49/S-27.000MHZ
X402	093T 2245B J	XTL NXS24.000AC18F-BK5 18PF 30PPM
X401	093T 2262B J	CRYSTAL NXS25.000 AC 20PF HC-49/US NSK
TU201	094TNTAT MA 4M	TUNER NTSC+ATSC ENG36E21KF PANASONIC
CN701	095T 82512D515	WIRE HARNESS 12P(SCN)-12P(PLUG)
	Q85T0075101	SHIELDING COVER
CN01	033T3802 5B YH	CONNECTOR 5PIN 2.0PITCH
U01	056T 627 33	IR 37.9KHZ KSM-603LM2E
CN02	033T8027 8 H	WAFER
SW05	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW06	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW07	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW03	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW04	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW02	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
SW01	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP
	715T2833 1	KEY BOARD PCB
Q903	057T 611 8	FET 2SK4085LS 16A/500V TO-220FI(LS)
Q902	057T 611 8	FET 2SK4085LS 16A/500V TO-220FI(LS)
	0M1T1730 10120	SCREW
	Q90G0099 1	HEAT SINK

Q901	057T 667 52	FET 2SK4100LS-T 7A/650V TO-220FI(LS)
	090G6084 1 GP	HEAT SINK
	0M1T1730 10120	SCREW
NR901	061T 58050 WL GP	RST NTCR 5 OHM +-15% 5A 13MM THINKING
	Q09T 203 8	PIN
	005T 42 1	CUSHION
	012T 372 2	SILICON
Q904	057T 667 25	STW20NM60
D901	093T 220 33	DIODE FMXA-1106S
	0M1T1730 10120	SCREW
	0M1T1730 10120	SCREW
	Q90T0097A01	HEAT SINK
	090G6084 1 GP	HEAT SINK
D907	093T 60298	DIODE SBT15006JST 15A/60V TO-220ML(LS)
	0M1T1730 10120	SCREW
BD901	093T 50460 18	D10XB60
	0M1T1730 10120	SCREW
	Q90T0148 1	HEAT SINK
D906	093T 60298	DIODE SBT15006JST 15A/60V TO-220ML(LS)
D916	093T 60306	DIODE FMEN-230A 30A/100V TO-220
D917	093T 60306	DIODE FMEN-230A 30A/100V TO-220
	0M1T1730 10120	SCREW
	Q90T0148 1	HEAT SINK
IC902	056T 379 79	IC LD7522PS SOP-8
IC901	056T 379104	IC ICE2PCS02G PG-DSO-8
IC903	056T 665 10 1	IC RESONANT L6599D SO-16N ST
Q906	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC
Q907	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC
Q908	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC
R932	061G0805244	RST CHIPR 240 KOHM +-5% 1/8W
R931	061G1206105	1M 1206
R930	061G1206105	1M 1206
R929	061G1206105	1M 1206
R933	061G1206154	RST CHIP 150K 1/4W 5%
R934	061G1206154	RST CHIP 150K 1/4W 5%
R935	061G1206154	RST CHIP 150K 1/4W 5%
R905	061G1206225	RST CHIPR 2.2 MOHM +-5% 1/4W
R906	061G1206225	RST CHIPR 2.2 MOHM +-5% 1/4W
R920	061G1206225	RST CHIPR 2.2 MOHM +-5% 1/4W
R918	061G1206430 3F	RST CHIPR 430 KOHM +-1% 1/4W
R982	061G1206430 3F	RST CHIPR 430 KOHM +-1% 1/4W
R980	061T0805000	RST CHIPR 0 OHM +-5% 1/8W
R961	061T0805100 2F	RST CHIPR 10 KOHM +-1% 1/8W

R973	061T0805100 2F	RST CHIPR 10 KOHM +-1% 1/8W
R919	061T0805100 2F	RST CHIPR 10 KOHM +-1% 1/8W
R944	061T0805101	RST CHIPR 100 OHM +-5% 1/8W
R964	061T0805101	RST CHIPR 100 OHM +-5% 1/8W
R970	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
R954	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
R951	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
R945	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
R943	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
R921	061T0805102	RST CHIPR 1KOHM +-5% 1/4W
R911	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W
R937	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W
R942	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W
R977	061T0805104	RST CHIPR 100 KOHM +-5% 1/8W
R940	061T0805154	RST CHIPR 150 KOHM +-5% 1/8W
R976	061T0805200 1F	RST CHIPR 2KOHM +-1% 1/8W
R946	061T0805202	RST CHIPR 2 KOHM +-5% 1/8W
R975	061T0805205 2F	RST CHIPR 20.5KOHM +-1% 1/8W
R917	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
R936	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
R965	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
R967	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
R909	061T0805220	RST CHIPR 22 OHM +-5% 1/8W
R950	061T0805221	RST CHIPR 220 OHM +-5% 1/8W
R952	061T0805221	RST CHIPR 220 OHM +-5% 1/8W
R960	061T0805240 2F	RST CHIPR 24 KOHM +-1% 1/8W
R947	061T0805242	RST CHIPR 2.4 KOHM +-5% 1/8W
R949	061T0805242	RST CHIPR 2.4 KOHM +-5% 1/8W
R953	061T0805272	RST CHIPR 2.7 KOHM +-5% 1/8W
R959	061T0805273	RST CHIPR 27 KOHM +-5% 1/8W
R904	061T0805332	RST CHIPR 3.3 KOHM +-5% 1/8W
R979	061T0805332	RST CHIPR 3.3 KOHM +-5% 1/8W
R963	061T0805390 1F	RST CHIPR 3.9KOHM +-1% 1/8W
R939	061T0805471	RST CHIPR 470 OHM +-5% 1/8W
R974	061T0805510 1F	RST CHIPR 5.1KOHM +-1% 1/8W
R941	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W
R966	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W
R968	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W
R978	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W
R962	061T0805514	RST CHIPR 510KOHM +-5% 1/8W
R948	061T0805560 2F	RST CHIPR 56KOHM +-1% 1/8W
R972	061T0805750 1F	RST CHIPR 7.5KOHM +-1% 1/8W
JR901	061T1206000	RST CHIPR 0 OHM +-5% 1/4W

JR902	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
JR903	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
JR904	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
JR905	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
JR906	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
JR907	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
R958	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W
R957	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W
R956	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W
R915	061T1206221	RST CHIPR 220 OHM +-5% 1/4W
R927	061T1206470	RST CHIPR 47 OHM +-5% 1/4W
R928	061T1206470	RST CHIPR 47 OHM +-5% 1/4W
R924	061T1206479	RST CHIPR 4.7 OHM +-5% 1/4W
R971	061T1206512	RST CHIPR 5.1KOHM +-5% 1/4W
R901	061T1206514	RST CHIPR 510KOHM +-5% 1/4W
R902	061T1206514	RST CHIPR 510KOHM +-5% 1/4W
R903	061T1206514	RST CHIPR 510KOHM +-5% 1/4W
C952	065T0805102 31	1000PF 50V NPO
C912	065T0805102 32	CHIP 1000PF 50V X7R 0805
C929	065T0805102 32	CHIP 1000PF 50V X7R 0805
C947	065T0805102 32	CHIP 1000PF 50V X7R 0805
C942	065T0805102 32 GP	CHIP 1000P 50VX7R 0805
C950	065T0805103 32	10NF/50V/0805/X7R
C931	065T0805104 22	0.1UF +-10% 25V X7R 0805
C949	065T0805104 22	0.1UF +-10% 25V X7R 0805
C934	065T0805104 22	0.1UF +-10% 25V X7R 0805
C932	065T0805104 22	0.1UF +-10% 25V X7R 0805
C926	065T0805104 22	0.1UF +-10% 25V X7R 0805
C914	065T0805104 32	CHIP 0.1UF 50V X7R
C944	065T0805104 32	CHIP 0.1UF 50V X7R
C938	065T0805104 32	CHIP 0.1UF 50V X7R
C924	065T0805104 32	CHIP 0.1UF 50V X7R
C920	065T0805104 32	CHIP 0.1UF 50V X7R
C911	065T0805105 22	CHIP 1UF 25V X7R 0805
C943	065T0805105 22	CHIP 1UF 25V X7R 0805
C925	065T0805105 22 GP	CHIP 1UF 25V X7R
C922	065T0805105 37	CHIP 1UF 50V Y5V
C939	065T0805105 37	CHIP 1UF 50V Y5V
C940	065T0805221 31	220PF 50V NPO
C913	065T0805223 22	CHIP 0.022UF 25V X7R 0805
C941	065T0805224 32	0805.0.22UF.K.50V.X7R
C910	065T0805472 22	CHIP 0.0047UF 25V X7R 0805
C930	065T0805473 32	CHIP 0.047UF 50V X7R

C917	065T1206102 72	CHIP 1000PF 500V X7R
C945	065T1206104 32	CHIP 0.1UF 50V X7R 1206
D915	093T 6432V	LL4148-GSO8 SMD BY VISHA
D914	093T 6432V	LL4148-GSO8 SMD BY VISHA
D913	093T 6432V	LL4148-GSO8 SMD BY VISHA
D912	093T 6432V	LL4148-GSO8 SMD BY VISHA
D911	093T 6432V	LL4148-GSO8 SMD BY VISHA
D909	093T 6432V	LL4148-GSO8 SMD BY VISHA
D908	093T 6432V	LL4148-GSO8 SMD BY VISHA
D902	093T 6432V	LL4148-GSO8 SMD BY VISHA
ZD905	093T 39S 15 T	RLZ15B
ZD901	093T 39S 15 T	RLZ15B
ZD904	093T 39S 24 T	RLZ 5.6B LLDS
R916	061G1206430 3F	RST CHIPR 430 KOHM +-1% 1/4W
C666	064T176J474 0T	0.47UF +-5% 50/63V
C684	064T176J474 0T	0.47UF +-5% 50/63V
C271	067T 305100 3T	10UF 16V
C272	067T 305100 3T	10UF 16V
C273	067T 305100 3T	10UF 16V
C274	067T 305100 3T	10UF 16V
C275	067T 305100 3T	10UF 16V
C276	067T 305100 3T	10UF 16V
C2A5	067T 305100 3T	10UF 16V
C2A6	067T 305100 3T	10UF 16V
C2A7	067T 305100 3T	10UF 16V
C2A8	067T 305100 3T	10UF 16V
C601	067T 305100 3T	10UF 16V
C602	067T 305100 3T	10UF 16V
C639	067T 305100 3T	10UF 16V
C644	067T 305100 3T	10UF 16V
C654	067T 305100 3T	10UF 16V
C435	067T 305101 4T	CAP 105℃ 100UF M 25V
C718	067T 305101 4T	CAP 105℃ 100UF M 25V
C735	067T 305101 4T	CAP 105℃ 100UF M 25V
C6A8	067T 305101 6T	E.C 100UF M 35V 8*12
C6A2	067T 305220 3T	EC 105℃ 22UF M 16V
C740	067T 305220 3T	EC 105℃ 22UF M 16V
C6A1	067T 305220 3T	EC 105℃ 22UF M 16V
C448	067T 305220 4T	105 RADIAL E-CAPACTOR 22UF 25V
C741	067T 305221 2T	CAP 105℃ 220UF M 10V
C748	067T 305221 2T	CAP 105℃ 220UF M 10V
C757	067T 305221 2T	CAP 105℃ 220UF M 10V
C730	067T 305221 2T	CAP 105℃ 220UF M 10V

C2A2	067T 305470 3T	EC 105℃ 47UF M 16V
C2A4	067T 305470 3T	EC 105℃ 47UF M 16V
C725	067T 305470 6T	E.C 47UF M 35V
R01	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
C01	065T0603104 32	CHIP 0.1UF 50V X7R
LED01	081T 14 24 EL	CHIP LED BLUE/DARK RED
	715T2832 D	IR BOARD PCB
CN901	006G 31500	EYELET
T902	006G 31502	1.5MM RIVET
L904	006G 31502	1.5MM RIVET
IC908	056T 158 12	KIA431A-AT/P
IC906	056T 158 12	KIA431A-AT/P
R922	061G 30347852T GP	RST FUSER 0.47OHM +-5% 1W
R955	061T 30310852T GP	0.1 OHM 1W FUSE RESISTOR
R923	061T152M10452T	RST MOFR 100KOHM +-5% 2WS
R938	061T152M12952T	RST MOFR 1.2OHM +-5% 2WS
C915	065G 2K152 1T6213	CAP CER 1500PF K 2KV
C906	065T 1K102 5T6213	1000PF, 1KV,K
C946	067G215A4704KT	EC 47UF 25V 5*11MM
C909	067G215A4704KT	EC 47UF 25V 5*11MM
C927	067T215A1007KT	EC 10UF 50V 5*11MM
C928	067T215A1017KT	EC 100UF 50V 8*12MM
C919	067T215A2214KT	EC 220UF 25V 8*12MM
FB905	071T 55 9 T	BEAD 3.5*6*0.8
FB904	071T 55 9 T	BEAD 3.5*6*0.8
FB903	071T 55 9 T	BEAD 3.5*6*0.8
FB902	071T 55 29	BEAD
FB901	071T 55 29	BEAD
FB907	071T 55 29 T	IND BEAD 3.5*4.5*0.8
FB906	071T 55 29 T	IND BEAD 3.5*4.5*0.8
F901	084T 55 4	FUSE 382-5A 250V WICKMANN
D910	093T 5250S52T	AU02Z
D905	093T1080 252T	DIODE SARSO1-V1 SANKEN
D918	093T1080 252T	DIODE SARSO1-V1 SANKEN
J909	095T 90 23	JUMP WIRE
J910	095T 90 23	JUMP WIRE
J911	095T 90 23	JUMP WIRE
J912	095T 90 23	JUMP WIRE
J913	095T 90 23	JUMP WIRE
J914	095T 90 23	JUMP WIRE
J915	095T 90 23	JUMP WIRE
J906	095T 90 23	JUMP WIRE
J905	095T 90 23	JUMP WIRE

J904	095T 90 23	JUMP WIRE
J903	095T 90 23	JUMP WIRE
J902	095T 90 23	JUMP WIRE
J901	095T 90 23	JUMP WIRE
J908	095T 90 23	JUMP WIRE
J907	095T 90 23	JUMP WIRE
J940	095T 90 23	JUMP WIRE
J939	095T 90 23	JUMP WIRE
J938	095T 90 23	JUMP WIRE
J937	095T 90 23	JUMP WIRE
J926	095T 90 23	JUMP WIRE
J927	095T 90 23	JUMP WIRE
J929	095T 90 23	JUMP WIRE
J931	095T 90 23	JUMP WIRE
J932	095T 90 23	JUMP WIRE
J933	095T 90 23	JUMP WIRE
J934	095T 90 23	JUMP WIRE
J936	095T 90 23	JUMP WIRE
J917	095T 90 23	JUMP WIRE
J918	095T 90 23	JUMP WIRE
J919	095T 90 23	JUMP WIRE
J920	095T 90 23	JUMP WIRE
J921	095T 90 23	JUMP WIRE
J922	095T 90 23	JUMP WIRE
J923	095T 90 23	JUMP WIRE
J924	095T 90 23	JUMP WIRE
J925	095T 90 23	JUMP WIRE
F902	095T 90 23	JUMP WIRE
J941	095T 90 23	JUMP WIRE
	715T2802 1	POWER BOARD PCB
FL703	053T 43 1	FILTER BULLWILL
FL702	053T 43 1	FILTER BULLWILL
FL701	053T 43 1	FILTER BULLWILL
U604	056T 158501	IC AZ431AN-AE1 SOT23-3 AAC
U706	056T 379 92	IC G5627F11U SOP-8(FD)
U705	056T 563 75	G1084-33T43UF TO-252
U701	056T 563112	IC AP1115BY33LA 0.7A/3.3V SOT89-3L
U707	056T 563113	IC G1117-18T63UF 1A/1.8V SOT-223
U703	056T 563114	IC G1117-33T63UF 1A/3.3V SOT-223
U702	056T 563121	IC G1084-33TU3UF TO-263T
U704	056T 563123	IC G1084-18TU3UF TO-263T
U708	056T 563124	ICG9084TU3U TO-263T
U709	056T 563126	IC G1117T63UF SOT-223

U712	056T 563135	IC G952T24UF SOT-89
U710	056T 585 11	AZ1117D-5.0-E1
U601	056T 593 29 1	IC STV8318F TQFP-100
U602	056T 593 32	IC STA335BW13TR POWERSSO36
U205	056T 614 1	IC 74HC4052D PHILIPS
U407	056T 615 66	IC NT5TU16M16AG-25D 256MB BGA-84
U406	056T 615 66	IC NT5TU16M16AG-25D 256MB BGA-84
U603	056T 616 43	IC MAX9724AETC+ TQFN-EP-12
U201	056T 634 2 1	PI5V330SSQE PERICOMQSOP-16
U507	056T 634 21	IC SII9185ACTU TQFP-80
U501	056T 662 10	IC RCLAMP0524P.TCT
U502	056T 662 10	IC RCLAMP0524P.TCT
U503	056T 662 10	IC RCLAMP0524P.TCT
U504	056T 662 10	IC RCLAMP0524P.TCT
U505	056T 662 10	IC RCLAMP0524P.TCT
U506	056T 662 10	IC RCLAMP0524P.TCT
U411	056T1125701 XBZG	IC MCU RTD2120L-LF LQFP48
U401	056T1126 31	IC ZR39780HGCF BGA-632
U204	056T1133 84	AF24BC02-S1
U402	056T1133103BZG	IC M25P32-VMF6P 32M S0-16
U403	056T113353A	M24C32-WMN6TP
U203	056T4LVT 14 P	IC 74LVT14D,118 BY SO-14 PHILIPS
Q603	057T 417511	TRA MMBT3904 BLUE ROKET
Q608	057T 417511	TRA MMBT3904 BLUE ROKET
Q611	057T 417511	TRA MMBT3904 BLUE ROKET
Q407	057T 417512	TRA MMBT3906 BLUE ROKET
Q604	057T 417512	TRA MMBT3906 BLUE ROKET
Q607	057T 417512	TRA MMBT3906 BLUE ROKET
Q605	057T 759 2	RK7002
Q606	057T 759 2	RK7002
Q609	057T 759 2	RK7002
Q610	057T 759 2	RK7002
Q401	057T 763 3	AO4411L SO-8 BY AOS SMT
Q705	057T 763 3	AO4411L SO-8 BY AOS SMT
Q704	057T 765 1	2SC2412KR
Q702	057T 765 1	2SC2412KR
Q701	057T 765 1	2SC2412KR
Q404	057T 765 1	2SC2412KR
Q403	057T 765 1	2SC2412KR
Q402	057T 765 1	2SC2412KR
Q204	057T 765 1	2SC2412KR
Q203	057T 765 1	2SC2412KR
Q202	057T 765 1	2SC2412KR

Q201	057T 765 1	2SC2412KR
R657	061G1206629	RST CHIP 6R2 1/4W 5%
R654	061G1206629	RST CHIP 6R2 1/4W 5%
R641	061G1206629	RST CHIP 6R2 1/4W 5%
R636	061G1206629	RST CHIP 6R2 1/4W 5%
R208	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R296	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R408	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R437	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R438	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R444	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R451	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R4A2	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R4B2	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R4B7	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R624	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L615	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L614	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L613	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L612	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L611	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L610	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L609	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L608	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
L607	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
FB238	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
FB237	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R670	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R664	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R661	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R647	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R645	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R644	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R643	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R642	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R626	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R625	061T0603000	RST CHIPR 0 OHM +-5% 1/10W
R709	061T0603100	CHIP 10OHM 1/16W
R452	061T0603100 0F	RST CHIPR 100 OHM +-1% 1/10W
R453	061T0603100 0F	RST CHIPR 100 OHM +-1% 1/10W
R455	061T0603100 0F	RST CHIPR 100 OHM +-1% 1/10W
R456	061T0603100 0F	RST CHIPR 100 OHM +-1% 1/10W
R717	061T0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W

R481	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R482	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R483	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R484	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R490	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R4B5	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R611	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R613	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R615	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R616	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R646	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R648	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R649	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R701	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R702	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R206	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R207	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R268	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R270	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R273	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R283	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R291	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R2A7	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R427	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R429	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R454	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R460	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R478	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R479	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R480	061T0603101	RST CHIPR 100 OHM +-5% 1/10W
R269	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R713	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R695	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R464	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R415	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R406	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R405	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R403	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R2E2	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R2E1	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R272	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R271	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R216	061T0603102	RST CHIPR 1KOHM +-5% 1/10W

R487	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R488	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R489	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R515	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R523	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R524	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R629	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R658	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R502	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R503	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R514	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R492	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R205	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R204	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R424	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R469	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R471	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R472	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R473	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R474	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R475	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R476	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R477	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R486	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
ZD230	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R266	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R723	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R715	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R714	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R690	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R688	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R686	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R659	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R493	061T0603103	RST CHIPR 10KOHM +-5% 1/10W
R679	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R678	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R660	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R251	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R250	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R249	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R248	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R247	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R246	061T0603104	RST CHIPR 100KOHM +-5% 1/10W

R682	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R684	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R689	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R694	061T0603104	RST CHIPR 100KOHM +-5% 1/10W
R428	061T0603105	RST CHIPR 1MOHM +-5% 1/10W
R662	061T0603105	RST CHIPR 1MOHM +-5% 1/10W
R683	061T0603105	RST CHIPR 1MOHM +-5% 1/10W
R722	061T0603120 1F	RST CHIPR 1.2 KOHM +-1% 1/10W
R212	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
R435	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
R434	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
R214	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
R520	061T0603182	CHIP 1.8K OHM 1/16W
R521	061T0603182	CHIP 1.8K OHM 1/16W
R718	061T0603200 1F	RST CHIPR 2 KOHM +-1% 1/10W
R4A5	061T0603201	RST CHIPR 200 OHM +-5% 1/10W
R211	061T0603202	RST CHIPR 2 KOHM +-5% 1/10W
R213	061T0603220	CHIP 22OHM 1/16W
R672	061T0603221	CHIP 220OHM 1/16W
R671	061T0603221	CHIP 220OHM 1/16W
R639	061T0603222	CHIP 2.2K OHM 1/16W
R275	061T0603222	CHIP 2.2K OHM 1/16W
R274	061T0603222	CHIP 2.2K OHM 1/16W
R726	061T0603223	CHIP 22KOHM 1/16W
R716	061T0603223	CHIP 22KOHM 1/16W
R669	061T0603223	CHIP 22KOHM 1/16W
R663	061T0603223	CHIP 22KOHM 1/16W
R468	061T0603223	CHIP 22KOHM 1/16W
R693	061T0603224	RST CHIPR 220 KOHM +-5% 1/10W
R711	061T0603240 1F	RST CHIPR 2.4KOHM +-1% 1/10W
R459	061T0603301	RST CHIPR 300OHM +-5% 1/10W
R258	061T0603330	CHIP 33OHM 1/16W
R259	061T0603330	CHIP 33OHM 1/16W
R262	061T0603330	CHIP 33OHM 1/16W
R263	061T0603330	CHIP 33OHM 1/16W
R282	061T0603330	CHIP 33OHM 1/16W
R284	061T0603330	CHIP 33OHM 1/16W
R285	061T0603330	CHIP 33OHM 1/16W
R286	061T0603330	CHIP 33OHM 1/16W
R290	061T0603330	CHIP 33OHM 1/16W
R243	061T0603330	CHIP 33OHM 1/16W
R242	061T0603330	CHIP 33OHM 1/16W
R234	061T0603330	CHIP 33OHM 1/16W

R233	061T0603330	CHIP 33OHM 1/16W
R230	061T0603330	CHIP 33OHM 1/16W
R227	061T0603330	CHIP 33OHM 1/16W
R226	061T0603330	CHIP 33OHM 1/16W
R225	061T0603330	CHIP 33OHM 1/16W
R222	061T0603330	CHIP 33OHM 1/16W
R221	061T0603330	CHIP 33OHM 1/16W
R4B8	061T0603330	CHIP 33OHM 1/16W
R605	061T0603330	CHIP 33OHM 1/16W
R604	061T0603330	CHIP 33OHM 1/16W
R603	061T0603330	CHIP 33OHM 1/16W
R602	061T0603330	CHIP 33OHM 1/16W
R529	061T0603330	CHIP 33OHM 1/16W
R517	061T0603330	CHIP 33OHM 1/16W
R516	061T0603330	CHIP 33OHM 1/16W
R495	061T0603330	CHIP 33OHM 1/16W
R494	061T0603330	CHIP 33OHM 1/16W
R412	061T0603330	CHIP 33OHM 1/16W
R411	061T0603330	CHIP 33OHM 1/16W
R2D6	061T0603330	CHIP 33OHM 1/16W
R2D5	061T0603330	CHIP 33OHM 1/16W
R2D4	061T0603330	CHIP 33OHM 1/16W
R2D3	061T0603330	CHIP 33OHM 1/16W
R2D2	061T0603330	CHIP 33OHM 1/16W
R2D1	061T0603330	CHIP 33OHM 1/16W
R2B6	061T0603330	CHIP 33OHM 1/16W
R2B5	061T0603330	CHIP 33OHM 1/16W
R298	061T0603330	CHIP 33OHM 1/16W
R297	061T0603330	CHIP 33OHM 1/16W
R449	061T0603330 1F	RST CHIPR 3.3 KOHM +-1% 1/10W
R498	061T0603332	RST CHIPR 3.3 KOHM +-5% 1/10W
R499	061T0603332	RST CHIPR 3.3 KOHM +-5% 1/10W
R665	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
R666	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W
R640	061T0603339	RST CHIPR 3.3 OHM +-5% 1/10W
R651	061T0603339	RST CHIPR 3.3 OHM +-5% 1/10W
R413	061T06033401FY	RST CHIPR 3.4KOHM +-1% 1/10W YAGEO
R237	061T0603348 0F	RST CHIPR 348 OHM +-1% 1/10W
R510	061T0603390 0F	RST CHIPR 390 OHM +-1% 1/10W
R525	061T0603390 0F	RST CHIPR 390 OHM +-1% 1/10W
R512	061T0603392	CHIP 3.9KOHM 1/16W
R201	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
R410	061T0603470	RST CHIPR 47 OHM +-5% 1/10W

R421	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
R422	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
R423	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
R436	061T0603470	RST CHIPR 47 OHM +-5% 1/10W
R712	061T0603470 1F	CHIP 4.7K OHM 1/16W 1%
R496	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R497	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R418	061T0603472	CHIP 4.7KOHM 1/16W
R419	061T0603472	CHIP 4.7KOHM 1/16W
R425	061T0603472	CHIP 4.7KOHM 1/16W
R426	061T0603472	CHIP 4.7KOHM 1/16W
R430	061T0603472	CHIP 4.7KOHM 1/16W
R431	061T0603472	CHIP 4.7KOHM 1/16W
R441	061T0603472	CHIP 4.7KOHM 1/16W
R442	061T0603472	CHIP 4.7KOHM 1/16W
R4A8	061T0603472	CHIP 4.7KOHM 1/16W
R4A9	061T0603472	CHIP 4.7KOHM 1/16W
R417	061T0603472	CHIP 4.7KOHM 1/16W
R416	061T0603472	CHIP 4.7KOHM 1/16W
R414	061T0603472	CHIP 4.7KOHM 1/16W
R409	061T0603472	CHIP 4.7KOHM 1/16W
R407	061T0603472	CHIP 4.7KOHM 1/16W
R404	061T0603472	CHIP 4.7KOHM 1/16W
R401	061T0603472	CHIP 4.7KOHM 1/16W
R2B9	061T0603472	CHIP 4.7KOHM 1/16W
R294	061T0603472	CHIP 4.7KOHM 1/16W
R293	061T0603472	CHIP 4.7KOHM 1/16W
R210	061T0603472	CHIP 4.7KOHM 1/16W
R505	061T0603472	CHIP 4.7KOHM 1/16W
R522	061T0603472	CHIP 4.7KOHM 1/16W
R704	061T0603472	CHIP 4.7KOHM 1/16W
R676	061T0603473	CHIP 47KOHM 1/16W
R675	061T0603473	CHIP 47KOHM 1/16W
R668	061T0603473	CHIP 47KOHM 1/16W
R667	061T0603473	CHIP 47KOHM 1/16W
R527	061T0603473	CHIP 47KOHM 1/16W
R470	061T0603473	CHIP 47KOHM 1/16W
R467	061T0603473	CHIP 47KOHM 1/16W
R2C2	061T0603473	CHIP 47KOHM 1/16W
R2C1	061T0603473	CHIP 47KOHM 1/16W
R677	061T0603473	CHIP 47KOHM 1/16W
R681	061T0603473	CHIP 47KOHM 1/16W
R724	061T0603473	CHIP 47KOHM 1/16W

R725	061T0603473	CHIP 47KOHM 1/16W
R252	061T0603473	CHIP 47KOHM 1/16W
R253	061T0603473	CHIP 47KOHM 1/16W
R254	061T0603473	CHIP 47KOHM 1/16W
R255	061T0603473	CHIP 47KOHM 1/16W
R257	061T0603473	CHIP 47KOHM 1/16W
R256	061T0603473	CHIP 47KOHM 1/16W
R2B8	061T0603473	CHIP 47KOHM 1/16W
R238	061T0603473	CHIP 47KOHM 1/16W
R239	061T0603473	CHIP 47KOHM 1/16W
R244	061T0603473	CHIP 47KOHM 1/16W
R245	061T0603473	CHIP 47KOHM 1/16W
R260	061T0603473	CHIP 47KOHM 1/16W
R261	061T0603473	CHIP 47KOHM 1/16W
R264	061T0603473	CHIP 47KOHM 1/16W
R265	061T0603473	CHIP 47KOHM 1/16W
R299	061T0603473	CHIP 47KOHM 1/16W
R2A1	061T0603473	CHIP 47KOHM 1/16W
R2A3	061T0603473	CHIP 47KOHM 1/16W
R2A4	061T0603473	CHIP 47KOHM 1/16W
R2A5	061T0603473	CHIP 47KOHM 1/16W
R2A6	061T0603473	CHIP 47KOHM 1/16W
R2B1	061T0603473	CHIP 47KOHM 1/16W
R2B2	061T0603473	CHIP 47KOHM 1/16W
R2B3	061T0603473	CHIP 47KOHM 1/16W
R2B4	061T0603473	CHIP 47KOHM 1/16W
R2B7	061T0603473	CHIP 47KOHM 1/16W
R457	061T0603510	RST CHIPR 51 OHM +-5% 1/10W
R458	061T0603510	RST CHIPR 51 OHM +-5% 1/10W
R202	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
R203	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
R450	061T0603620 2F	RST CHIPR 62 KOHM +-1% 1/10W
R508	061T0603682	RST CHIPR 6.8KOHM +-5% 1/10W
R680	061T0603684	RST CHIPR 680 KOHM +-5% 1/10W
R685	061T0603684	RST CHIPR 680 KOHM +-5% 1/10W
R215	061T0603750	75OHM
R448	061T0603750	75OHM
R209	061T0603750 9F	CHIP 75OHM 1/16W 1%
R223	061T0603750 9F	CHIP 75OHM 1/16W 1%
R224	061T0603750 9F	CHIP 75OHM 1/16W 1%
R2C9	061T0603750 9F	CHIP 75OHM 1/16W 1%
R2C8	061T0603750 9F	CHIP 75OHM 1/16W 1%
R2C7	061T0603750 9F	CHIP 75OHM 1/16W 1%

R2C6	061T0603750 9F	CHIP 75OHM 1/16W 1%
R2C5	061T0603750 9F	CHIP 75OHM 1/16W 1%
R281	061T0603750 9F	CHIP 75OHM 1/16W 1%
R280	061T0603750 9F	CHIP 75OHM 1/16W 1%
R279	061T0603750 9F	CHIP 75OHM 1/16W 1%
R232	061T0603750 9F	CHIP 75OHM 1/16W 1%
R231	061T0603750 9F	CHIP 75OHM 1/16W 1%
R229	061T0603750 9F	CHIP 75OHM 1/16W 1%
R228	061T0603750 9F	CHIP 75OHM 1/16W 1%
R463	061T0603821	RST CHIPR 820 OHM +-5% 1/10W
R692	061T0603821	RST CHIPR 820 OHM +-5% 1/10W
R506	061T0603821	RST CHIPR 820 OHM +-5% 1/10W
R4B1	061T0603822	RST CHIPR 8.2 KOHM +-5% 1/10W
R446	061T0603845 0F	RST CHIPR 0603 845R 1/10W 1%
R447	061T0603845 0F	RST CHIPR 0603 845R 1/10W 1%
FB401	061T0805479	RST CHIPR 4.7 OHM +-5% 1/8W
R720	061T0805560 1F	RST CHIPR 5.6 KOHM +-1% 1/8W
R466	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
R738	061T1206000 4	RST CHIPR 0 OHM +-5% 1/4W
R739	061T1206000 4	RST CHIPR 0 OHM +-5% 1/4W
R740	061T1206000 4	RST CHIPR 0 OHM +-5% 1/4W
R633	061T1206220	RST CHIPR 22 OHM +-5% 1/4W
R653	061T1206220	RST CHIPR 22 OHM +-5% 1/4W
C453	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C455	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C456	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C458	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C459	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C460	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C463	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C464	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C465	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C466	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C467	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C468	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C451	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C221	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C222	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C225	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C226	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C230	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C233	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C234	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R

C406	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C409	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C411	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C413	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C414	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C469	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C487	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C488	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C489	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C490	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C491	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C494	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C495	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C496	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C497	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C498	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C499	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C4A1	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C486	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C470	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C471	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C472	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C473	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C474	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C475	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C476	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C481	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C482	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C483	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C484	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C485	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C212	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C4A2	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C4A3	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C4A4	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C4A5	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C4C9	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C4D2	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C204	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C207	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C208	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C209	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R
C211	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R

C280	065T0603101 31	CHIP 100PF 50V NPO
C281	065T0603101 31	CHIP 100PF 50V NPO
C282	065T0603101 31	CHIP 100PF 50V NPO
C283	065T0603101 31	CHIP 100PF 50V NPO
C298	065T0603101 31	CHIP 100PF 50V NPO
C299	065T0603101 31	CHIP 100PF 50V NPO
C2A9	065T0603101 31	CHIP 100PF 50V NPO
C2B1	065T0603101 31	CHIP 100PF 50V NPO
C696	065T0603101 31	CHIP 100PF 50V NPO
C697	065T0603101 31	CHIP 100PF 50V NPO
C6B2	065T0603101 31	CHIP 100PF 50V NPO
C6B3	065T0603101 31	CHIP 100PF 50V NPO
C708	065T0603101 31	CHIP 100PF 50V NPO
C709	065T0603101 31	CHIP 100PF 50V NPO
C289	065T0603102 21	CHIP 1000PF 25V NPO
C293	065T0603102 21	CHIP 1000PF 25V NPO
C217	065T0603102 31	CHIP 1000PF 50V NPO
C223	065T0603102 31	CHIP 1000PF 50V NPO
C214	065T0603102 32	CHIP 1000PF 50V X7R
C203	065T0603102 32	CHIP 1000PF 50V X7R
C734	065T0603102 32	CHIP 1000PF 50V X7R
C724	065T0603102 32	CHIP 1000PF 50V X7R
C717	065T0603102 32	CHIP 1000PF 50V X7R
C699	065T0603102 32	CHIP 1000PF 50V X7R
C693	065T0603102 32	CHIP 1000PF 50V X7R
C688	065T0603102 32	CHIP 1000PF 50V X7R
C685	065T0603102 32	CHIP 1000PF 50V X7R
C683	065T0603102 32	CHIP 1000PF 50V X7R
C670	065T0603102 32	CHIP 1000PF 50V X7R
C667	065T0603102 32	CHIP 1000PF 50V X7R
C665	065T0603102 32	CHIP 1000PF 50V X7R
C657	065T0603102 32	CHIP 1000PF 50V X7R
C653	065T0603102 32	CHIP 1000PF 50V X7R
C652	065T0603102 32	CHIP 1000PF 50V X7R
C457	065T0603102 32	CHIP 1000PF 50V X7R
C454	065T0603102 32	CHIP 1000PF 50V X7R
C450	065T0603102 32	CHIP 1000PF 50V X7R
C412	065T0603102 32	CHIP 1000PF 50V X7R
C410	065T0603102 32	CHIP 1000PF 50V X7R
C408	065T0603102 32	CHIP 1000PF 50V X7R
C655	065T0603103 12	CHIP 0.01UF 16V X7R
C621	065T0603103 12	CHIP 0.01UF 16V X7R
C620	065T0603103 12	CHIP 0.01UF 16V X7R

C452	065T0603103 12	CHIP 0.01UF 16V X7R
C502	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C501	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C503	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C504	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C505	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C506	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C507	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C508	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C509	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C510	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C511	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C512	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C513	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C514	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C515	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C516	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C517	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4D1	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C437	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C438	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C439	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C440	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C441	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C442	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C443	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C444	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C445	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C446	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C447	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4A9	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4B1	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4B2	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4B3	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4B4	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4B5	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4B6	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4B7	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4C2	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C4C4	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C603	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C6B4	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C6B5	065T0603104 12	MLCC 0603 0.1UF K 16V X7R

C702	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C705	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C711	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C713	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C721	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C722	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C727	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C728	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C731	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C732	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C733	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C736	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C739	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C742	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C743	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C749	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C750	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C756	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C771	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C6B1	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C604	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C605	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C606	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C607	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C608	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C609	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C610	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C611	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C612	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C613	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C632	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C634	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C643	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C645	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C646	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C647	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C658	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C673	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C674	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C680	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C681	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C2A3	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C2A1	065T0603104 12	MLCC 0603 0.1UF K 16V X7R

C295	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C292	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C291	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C290	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C270	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C268	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C260	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C256	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C255	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C250	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C248	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C244	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C243	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C236	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C215	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C201	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C2B4	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C436	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C434	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C433	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C432	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C431	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C430	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C429	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C428	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C427	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C2B5	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C2B6	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C2B7	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C401	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C403	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C422	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C423	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C425	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C426	065T0603104 12	MLCC 0603 0.1UF K 16V X7R
C689	065T0603104 32	CHIP 0.1UF 50V X7R
C686	065T0603104 32	CHIP 0.1UF 50V X7R
C682	065T0603104 32	CHIP 0.1UF 50V X7R
C679	065T0603104 32	CHIP 0.1UF 50V X7R
C678	065T0603104 32	CHIP 0.1UF 50V X7R
C672	065T0603104 32	CHIP 0.1UF 50V X7R
C671	065T0603104 32	CHIP 0.1UF 50V X7R
C668	065T0603104 32	CHIP 0.1UF 50V X7R

C664	065T0603104 32	CHIP 0.1UF 50V X7R
C690	065T0603104 32	CHIP 0.1UF 50V X7R
C716	065T0603104 32	CHIP 0.1UF 50V X7R
C723	065T0603104 32	CHIP 0.1UF 50V X7R
C744	065T0603104 32	CHIP 0.1UF 50V X7R
C746	065T0603104 32	CHIP 0.1UF 50V X7R
C660	065T0603104 32	CHIP 0.1UF 50V X7R
C4C7	065T0603104 32	CHIP 0.1UF 50V X7R
C461	065T0603104 32	CHIP 0.1UF 50V X7R
C449	065T0603104 32	CHIP 0.1UF 50V X7R
C661	065T0603104 32	CHIP 0.1UF 50V X7R
C4A6	065T0603105 12	CHIP 1UF 16V X7R
C235	065T0603105 12	CHIP 1UF 16V X7R
C415	065T0603105 12	CHIP 1UF 16V X7R
C477	065T0603105 12	CHIP 1UF 16V X7R
C478	065T0603105 12	CHIP 1UF 16V X7R
C492	065T0603105 12	CHIP 1UF 16V X7R
C6B6	065T0603105 17	CHIP 1UF 16V Y5V
C698	065T0603105 17	CHIP 1UF 16V Y5V
C692	065T0603105 17	CHIP 1UF 16V Y5V
C691	065T0603105 17	CHIP 1UF 16V Y5V
C615	065T0603105 17	CHIP 1UF 16V Y5V
C614	065T0603105 17	CHIP 1UF 16V Y5V
C462	065T0603105 25	CHIP 1UF 25V X5R
C773	065T0603105 A7	CHIP 1UF 10V Y5V
C206	065T0603220 31	CHIP 22PF 50V NPO
C205	065T0603220 31	CHIP 22PF 50V NPO
C695	065T0603221 32	CHIP 220PF 50V X7R
C694	065T0603221 32	CHIP 220PF 50V X7R
C286	065T0603224 22	CHIP CAP 0.22UF 25V X7
C287	065T0603224 22	CHIP CAP 0.22UF 25V X7
C288	065T0603224 22	CHIP CAP 0.22UF 25V X7
C297	065T0603224 22	CHIP CAP 0.22UF 25V X7
C402	065T0603224 22	CHIP CAP 0.22UF 25V X7
C656	065T0603224 22	CHIP CAP 0.22UF 25V X7
C758	065T0603224 22	CHIP CAP 0.22UF 25V X7
C759	065T0603224 22	CHIP CAP 0.22UF 25V X7
C769	065T0603225 A5	CHIP 2.2UF 10V X5R
C649	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C648	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C638	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C637	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C629	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R

C628	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C625	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C624	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C619	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C618	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R
C631	065T0603270 31	CHIP 27PF 50V NPO
C636	065T0603270 31	CHIP 27PF 50V NPO
C640	065T0603270 31	CHIP 27PF 50V NPO
C641	065T0603270 31	CHIP 27PF 50V NPO
C642	065T0603270 31	CHIP 27PF 50V NPO
C650	065T0603270 31	CHIP 27PF 50V NPO
C651	065T0603270 31	CHIP 27PF 50V NPO
C630	065T0603270 31	CHIP 27PF 50V NPO
C627	065T0603270 31	CHIP 27PF 50V NPO
C626	065T0603270 31	CHIP 27PF 50V NPO
C623	065T0603270 31	CHIP 27PF 50V NPO
C622	065T0603270 31	CHIP 27PF 50V NPO
C617	065T0603270 31	CHIP 27PF 50V NPO
C616	065T0603270 31	CHIP 27PF 50V NPO
C405	065T0603300 31	CHIP 0603 30PF J 50V NPO
C4B9	065T0603300 31	CHIP 0603 30PF J 50V NPO
C4C1	065T0603300 31	CHIP 0603 30PF J 50V NPO
C404	065T0603330 31	CHIP 33PF 50V NPO
C669	065T0603331 32	CHIP 330PF 50V X7R
C687	065T0603331 32	CHIP 330PF 50V X7R
C6A3	065T0603331 32	CHIP 330PF 50V X7R
C6A4	065T0603331 32	CHIP 330PF 50V X7R
C417	065T0603392 32	CHIP 3900PF 50V X7R
C416	065T0603393 32	CHIP 0.039UF 50V X7R
C261	065T0603470 31	CHIP 47PF 50V NPO
C258	065T0603470 31	CHIP 47PF 50V NPO
C257	065T0603470 31	CHIP 47PF 50V NPO
C251	065T0603470 31	CHIP 47PF 50V NPO
C245	065T0603470 31	CHIP 47PF 50V NPO
C246	065T0603470 31	CHIP 47PF 50V NPO
C249	065T0603470 31	CHIP 47PF 50V NPO
C267	065T0603470 32	CHIP 47PF 50V X7R
C266	065T0603470 32	CHIP 47PF 50V X7R
C277	065T0603470 32	CHIP 47PF 50V X7R
C278	065T0603470 32	CHIP 47PF 50V X7R
C279	065T0603470 32	CHIP 47PF 50V X7R
C265	065T0603470 32	CHIP 47PF 50V X7R
C247	065T0603470 32	CHIP 47PF 50V X7R

C242	065T0603470 32	CHIP 47PF 50V X7R
C241	065T0603470 32	CHIP 47PF 50V X7R
C202	065T0603470 32	CHIP 47PF 50V X7R
C6A5	065T0603471 32	CHIP 470PF 50V NPO
C6A6	065T0603471 32	CHIP 470PF 50V NPO
C676	065T060347232K Y	CAP CHIP 0603 4700PF K 50V X7R
C421	065T0603474 12	CHIP 0.47UF 16V X7R
C4B8	065T0603560 31 GP	MLCC 0603 56PF J 50V NPO
C4C8	065T0603560 31 GP	MLCC 0603 56PF J 50V NPO
C677	065T0603681 21	CHIP 680PF 25V NPO
C220	065T0603820 31	0603 82PF +-5%, 50V NPO
C662	065T0805105 37	CHIP 1UF 50V Y5V
C663	065T0805105 37	CHIP 1UF 50V Y5V
C407	065T0805106 A7	CHIP 10UF 10V Y5V 0805
C774	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C772	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C710	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C703	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C4D4	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C420	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C419	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C418	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C269	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C231	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C210	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R
C633	065T1206106 17	CHIP 10UF 16V Y5V
C635	065T1206106 17	CHIP 10UF 16V Y5V
C4A8	065T120610612K 3	CHIP 10UF 16V X7R 10%
C4A7	065T120610612K 3	CHIP 10UF 16V X7R 10%
C493	065T120610612K 3	CHIP 10UF 16V X7R 10%
C480	065T120610612K 3	CHIP 10UF 16V X7R 10%
C479	065T120610612K 3	CHIP 10UF 16V X7R 10%
C738	065T1206226 A7	CHIP 1206 22UF Z 10V
FB402	071T 56D121 JA	CHIP BEAD 120 OHM 0805 1A
FB403	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB404	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB407	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB408	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB409	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB410	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB411	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB412	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB413	071T 56G301 EA	CHIP BEAD 300 OHM 0805

FB501	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB502	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB503	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB610	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB611	071T 56G301 EA	CHIP BEAD 300 OHM 0805
FB608	071T 56V301 B	CHIP BEAD 0805 300OHM 700MA BULLWILL
FB607	071T 56Z601	CHIP BEAD 600 OHM
FB606	071T 56Z601	CHIP BEAD 600 OHM
FB406	071T 57G301 EA	CHIP BEAD
FB703	071T 57G301 EA	CHIP BEAD
FB704	071T 57G301 EA	CHIP BEAD
FB706	071T 57G301 EA	CHIP BEAD
FB707	071T 57G301 EA	CHIP BEAD
FB702	071T 59B121	BEAD 0603 120 OHM
FB609	071T 59B121	BEAD 0603 120 OHM
FB414	071T 59B121	BEAD 0603 120 OHM
FB213	071T 59B121	BEAD 0603 120 OHM
FB212	071T 59B121	BEAD 0603 120 OHM
FB211	071T 59B121	BEAD 0603 120 OHM
FB208	071T 59B121	BEAD 0603 120 OHM
FB207	071T 59B121	BEAD 0603 120 OHM
FB205	071T 59B121	BEAD 0603 120 OHM
FB204	071T 59B121	BEAD 0603 120 OHM
FB202	071T 59B121	BEAD 0603 120 OHM
FB712	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB711	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB710	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB709	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB708	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB236	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB235	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB234	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB206	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB203	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608
FB229	071T 59C300	CHIP BEAD 30 OHM 0603
FB228	071T 59C300	CHIP BEAD 30 OHM 0603
FB227	071T 59C300	CHIP BEAD 30 OHM 0603
FB222	071T 59C300	CHIP BEAD 30 OHM 0603
FB221	071T 59C300	CHIP BEAD 30 OHM 0603
FB220	071T 59C300	CHIP BEAD 30 OHM 0603
FB218	071T 59C300	CHIP BEAD 30 OHM 0603
FB217	071T 59C300	CHIP BEAD 30 OHM 0603
FB216	071T 59C300	CHIP BEAD 30 OHM 0603

FB209	071T 59G301	CHIP BEAD 300OHM
FB210	071T 59G301	CHIP BEAD 300OHM
FB214	071T 59G301	CHIP BEAD 300OHM
FB215	071T 59G301	CHIP BEAD 300OHM
FB223	071T 59G301	CHIP BEAD 300OHM
FB224	071T 59G301	CHIP BEAD 300OHM
FB225	071T 59G301	CHIP BEAD 300OHM
FB226	071T 59G301	CHIP BEAD 300OHM
FB230	071T 59G301	CHIP BEAD 300OHM
FB231	071T 59G301	CHIP BEAD 300OHM
FB232	071T 59G301	CHIP BEAD 300OHM
FB233	071T 59G301	CHIP BEAD 300OHM
L605	071T160833102Y	CHIP BEAD 0603 330OHM
L606	071T160833102Y	CHIP BEAD 0603 330OHM
FB601	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A
FB602	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A
FB603	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A
FB604	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A
FB605	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A
L203	073T 57228	CHIP INDUCTOR 0805 0.22UH+-10% JKMT
L201	073T 57228	CHIP INDUCTOR 0805 0.22UH+-10% JKMT
L202	073T 8515810K	CHIP INDUCTOR 0.15UH 10% 0805
L401	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L505	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L506	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L507	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L508	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L509	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L510	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L511	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L512	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00
L702	073T253S 46 B	SMD CHOKE TP0504-4R7M 4.7UH
F402	084T 52 15 B GP	CHIP FUSE 1.0A 63V
F401	084T 52 20 B	CHIP FUSE 0.5A 63V
CN503	088T 340 19 AV	HDMI HEADER 19P +SCREW HOLE
CN501	088T 340 21 VN	HDMI HEADER 21P V/A
CN502	088T 340 21 VN	HDMI HEADER 21P V/A
ZD232	093T 60230	BAT54C BY MCC
ZD226	093T 64 37 N	V-PORT-0603-100K V05
ZD225	093T 64 37 N	V-PORT-0603-100K V05
ZD224	093T 64 37 N	V-PORT-0603-100K V05
ZD223	093T 64 37 N	V-PORT-0603-100K V05
ZD212	093T 64 37 N	V-PORT-0603-100K V05

ZD213	093T 64 37 N	V-PORT-0603-100K V05
ZD214	093T 64 37 N	V-PORT-0603-100K V05
ZD215	093T 64 37 N	V-PORT-0603-100K V05
ZD216	093T 64 37 N	V-PORT-0603-100K V05
ZD217	093T 64 37 N	V-PORT-0603-100K V05
ZD218	093T 64 37 N	V-PORT-0603-100K V05
ZD219	093T 64 37 N	V-PORT-0603-100K V05
ZD220	093T 64 37 N	V-PORT-0603-100K V05
ZD221	093T 64 37 N	V-PORT-0603-100K V05
ZD222	093T 64 37 N	V-PORT-0603-100K V05
ZD227	093T 64 37 N	V-PORT-0603-100K V05
ZD413	093T 64 37 N	V-PORT-0603-100K V05
ZD412	093T 64 37 N	V-PORT-0603-100K V05
ZD411	093T 64 37 N	V-PORT-0603-100K V05
ZD410	093T 64 37 N	V-PORT-0603-100K V05
ZD409	093T 64 37 N	V-PORT-0603-100K V05
ZD408	093T 64 37 N	V-PORT-0603-100K V05
ZD407	093T 64 37 N	V-PORT-0603-100K V05
ZD406	093T 64 37 N	V-PORT-0603-100K V05
ZD405	093T 64 37 N	V-PORT-0603-100K V05
ZD404	093T 64 37 N	V-PORT-0603-100K V05
ZD403	093T 64 37 N	V-PORT-0603-100K V05
ZD402	093T 64 37 N	V-PORT-0603-100K V05
ZD401	093T 64 37 N	V-PORT-0603-100K V05
ZD243	093T 64 37 N	V-PORT-0603-100K V05
ZD242	093T 64 37 N	V-PORT-0603-100K V05
ZD241	093T 64 37 N	V-PORT-0603-100K V05
ZD240	093T 64 37 N	V-PORT-0603-100K V05
ZD239	093T 64 37 N	V-PORT-0603-100K V05
ZD238	093T 64 37 N	V-PORT-0603-100K V05
ZD237	093T 64 37 N	V-PORT-0603-100K V05
ZD501	093T 64 37 N	V-PORT-0603-100K V05
ZD228	093T 64 37 N	V-PORT-0603-100K V05
ZD229	093T 64 37 N	V-PORT-0603-100K V05
ZD231	093T 64 37 N	V-PORT-0603-100K V05
ZD233	093T 64 37 N	V-PORT-0603-100K V05
ZD234	093T 64 37 N	V-PORT-0603-100K V05
ZD235	093T 64 37 N	V-PORT-0603-100K V05
ZD236	093T 64 37 N	V-PORT-0603-100K V05
ZD605	093T 64 37 N	V-PORT-0603-100K V05
ZD604	093T 64 37 N	V-PORT-0603-100K V05
ZD603	093T 64 37 N	V-PORT-0603-100K V05
ZD602	093T 64 37 N	V-PORT-0603-100K V05

ZD601	093T 64 37 N	V-PORT-0603-100K V05
ZD509	093T 64 37 N	V-PORT-0603-100K V05
ZD508	093T 64 37 N	V-PORT-0603-100K V05
ZD507	093T 64 37 N	V-PORT-0603-100K V05
ZD506	093T 64 37 N	V-PORT-0603-100K V05
ZD505	093T 64 37 N	V-PORT-0603-100K V05
ZD504	093T 64 37 N	V-PORT-0603-100K V05
ZD503	093T 64 37 N	V-PORT-0603-100K V05
ZD502	093T 64 37 N	V-PORT-0603-100K V05
ZD201	093T 64 37 N	V-PORT-0603-100K V05
ZD202	093T 64 37 N	V-PORT-0603-100K V05
ZD203	093T 64 37 N	V-PORT-0603-100K V05
ZD204	093T 64 37 N	V-PORT-0603-100K V05
ZD205	093T 64 37 N	V-PORT-0603-100K V05
ZD206	093T 64 37 N	V-PORT-0603-100K V05
ZD207	093T 64 37 N	V-PORT-0603-100K V05
ZD208	093T 64 37 N	V-PORT-0603-100K V05
ZD209	093T 64 37 N	V-PORT-0603-100K V05
ZD210	093T 64 37 N	V-PORT-0603-100K V05
ZD211	093T 64 37 N	V-PORT-0603-100K V05
D603	093T 6432P	LL4148 BY PANJIT
D403	093T 6432P	LL4148 BY PANJIT
D401	093T 6432P	LL4148 BY PANJIT
D606	093T 6432P	LL4148 BY PANJIT
D605	093T 6432P	LL4148 BY PANJIT
D604	093T 6432P	LL4148 BY PANJIT
ZD702	093T3004 3	SM340A DO-214AC BY SECOS
ZD701	093T3004 3	SM340A DO-214AC BY SECOS
ZD704	093T3004 3	SM340A DO-214AC BY SECOS
	715T2830 D 2	MAIN BOARD PCB
R461	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R4A6	061T0603102	RST CHIPR 1KOHM +-5% 1/10W
R485	061T0603330	CHIP 33OHM 1/16W
R491	061T0603330	CHIP 33OHM 1/16W

12. Different Parts List

Diversity of E428MZNKW1BYNN compared with E428MZNKW1BCNN		
Location	**Part No.**	**Description**
	Q40T000297614A	STICKERS LABEL